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1945

The 153rd Continuous Year of Publication

GOD
BLESS
and
PROTECT
OUR BOYS

SPRING.

SUMMER.

THE
OLD

FARMER'S

1945

ALMANAC

BY
ROBERT B. THOMAS



Price 15 Cents

Weather Indications

The GOOD EARTH SURVIVES

CITIES may be blasted by bombs; edifices which have stood strong for centuries may topple; homes and factories may be destroyed beyond repair. But the soil, blackened by the blight of war, blossoms green again after the armies have passed.

THE SOIL blossoms green again because of the deep instinct of every good farmer in the world to keep on tilling the soil, sowing the seed and tending his crops, even in the very center of war's destruction.

ACCUSTOMED to taking the long view because of the very nature of his calling, the farmer senses perhaps more keenly than other men the long-range benefits of life insurance. Like the good earth, its values remain intact through all life's changes and in spite of every sort of personal or national catastrophe.

LIKE THE SOIL, life insurance is something firm to stand on, something we can be sure of through all of life's vicissitudes. Because of it many a farm and home is safe against the storms and stress of the future.

John Hancock
MUTUAL
LIFE INSURANCE COMPANY
OF BOSTON, MASSACHUSETTS

Number One Hundred and Fifty-Three

THE
(OLD)
FARMER'S ALMANACK.

CALCULATED ON A NEW AND IMPROVED PLAN
FOR THE YEAR OF OUR LORD

1945

Being 1st after BISSEXTILE or LEAP YEAR, and (until July 4)
169th year of American Independence.

FITTED FOR BOSTON, AND THE NEW ENGLAND STATES, WITH SPECIAL CORRECTIONS AND CALCULATIONS TO ANSWER FOR ALL THE UNITED STATES.

Containing, besides the large number of Astronomical Calculations
and the Farmer's Calendar for every month
in the year, a variety of

NEW, USEFUL, AND ENTERTAINING MATTER.

ESTABLISHED IN 1792

BY ROBERT B. THOMAS.



I believe that no human work approaches so near to perfection,
that no human ability has produced such a result, or holds out such
a prospect of social happiness for ages and ages to come, as the
Constitution transmitted to us by our fathers.

Daniel Webster
OFA—1848

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BROOKLINE, MASS.

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Publishers:
YANKEE, INC.
DUBLIN, N. H.

Sold By:
THE AMERICAN NEWS CO.
AND BRANCHES

TO PATRONS AND CORRESPONDENTS

This issue is our One Hundred and Fifty-third annual edition in the same format and at the same price. Your many years of patronage has been, and is—particularly in these trying times—a source of constant gratification and inspiration. It is difficult to realize that this issue is the third to come out of the all too few hours of evenings and Sundays—our Staff having been preoccupied this past year as usual in the Armed Forces or war service.

Our many explanation and correction tables have been gathered together this year on pages four through twelve. Some omissions will be evident owing to our going to press before the National Elections . . . and the abnormal dislocation of some tables owing to the War. The substitutions—such as Degree Days, Hesiod's predictions, etc.—we trust you will find do not lack interest. The narrative Arctic Rescue, though well known to many, has been included for historical reasons. It ranks our generation of man, in courage, with any and all others.

The title page poems are by David Morton of Amherst, Massachusetts. To Eltinge F. Warner of Field and Stream we are indebted for the Game Laws. B. M. Rice, in the continued absence of Jeremy Scribble, has prepared the Farmer's Calendars while Lt. Com. Robt. Foote and Loring B. Andrews contributed much valuable information. Mr. Weatherwise, in submitting his Weather Indications, cautions that "this winter will probably be turbulent"—especially during the latter part of February.

M. S. Morrissey, President of The American News Company, John B. Curry of the Machine Composition Company, R. G. Nelson of the Curtiss Way Company, and Philip Coulter of the St. Regis Paper Company—innumerable editors and broadcasters—government officials—and hosts of interested friends—particularly those advertisers you will find in the pages that follow—have gone out of their way to make this issue as good as ever.

Finally—as we go to press—there is talk of the end of the war in Europe. This does not mean an end to war—or any degree of certainty the sacrifices of our Armed Forces have not been in vain. We pray for better times for them, their families—and us.

Man, however, in these great things, can only propose. God is the true disposer. In this, then, it is by our works and not by our words we would be judged; these we hope will sustain us in the humble though proud station we have so long held.

Your ob'd servant,

W. O. Thomas.

September 15, 1944.

THE OFFICE OF CENSORSHIP Washington, D. C.

YANKEE, INC.
Dublin, N. H.

September 15, 1944

Gentlemen:

Thank you for submitting in proof form the weather indications for The Old Farmer's Almanac for the coming year. Due to your published statement that these are "weather indications," there is no application to them of the request in the "Weather" clause of the Code of Wartime Practices for the American Press that no weather forecasts be published except those issued by the U. S. Weather Bureau.

Your cooperation under the voluntary Code is appreciated.

Very truly yours,

JACK LOCKHART
Assistant Director (Press)

1945

JANUARY.							FEBRUARY.							MARCH.							APRIL.						
S	M	T	W	Th	F	S	S	M	T	W	Th	F	S	S	M	T	W	Th	F	S	S	M	T	W	Th	F	S
-	1	2	3	4	5	6	-	-	-	-	1	2	3	-	-	-	-	1	2	3	1	2	3	4	5	6	7
7	8	9	10	11	12	13	4	5	6	7	8	9	10	4	5	6	7	8	9	10	8	9	10	11	12	13	14
14	15	16	17	18	19	20	11	12	13	14	15	16	17	11	12	13	14	15	16	17	15	16	17	18	19	20	21
21	22	23	24	25	26	27	18	19	20	21	22	23	24	18	19	20	21	22	23	24	22	23	24	25	26	27	28
28	29	30	31	-	-	-	25	26	27	28	-	-	-	25	26	27	28	29	30	31	29	30	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MAY.							JUNE.							JULY.							AUGUST.						
-	-	1	2	3	4	5	-	-	-	-	-	1	2	1	2	3	4	5	6	7	-	-	-	1	2	3	4
6	7	8	9	10	11	12	3	4	5	6	7	8	9	8	9	10	11	12	13	14	5	6	7	8	9	10	11
13	14	15	16	17	18	19	10	11	12	13	14	15	16	15	16	17	18	19	20	21	12	13	14	15	16	17	18
20	21	22	23	24	25	26	17	18	19	20	21	22	23	22	23	24	25	26	27	28	19	20	21	22	23	24	25
27	28	29	30	31	-	-	24	25	26	27	28	29	30	29	30	31	-	-	-	26	27	28	29	30	31	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
SEPTEMBER.							OCTOBER.							NOVEMBER.							DECEMBER.						
-	-	-	-	-	-	1	-	1	2	3	4	5	6	-	-	-	-	1	2	3	-	-	-	-	-	-	1
2	3	4	5	6	7	8	7	8	9	10	11	12	13	4	5	6	7	8	9	10	2	3	4	5	6	7	8
9	10	11	12	13	14	15	14	15	16	17	18	19	20	11	12	13	14	15	16	17	9	10	11	12	13	14	15
16	17	18	19	20	21	22	21	22	23	24	25	26	27	18	19	20	21	22	23	24	16	17	18	19	20	21	22
23	24	25	26	27	28	29	28	29	30	31	-	-	-	25	26	27	28	29	30	-	23	24	25	26	27	28	29
30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30	31	-	-	-	-	-	

Ponder then upon this story of the mate, who, after a day's shore leave which had left him somewhat befuddled, forgot or was unable to write up the day's log. The next morning he found his captain had attended to that duty, adding at the end of the record, "Mate drunk today." The mate said nothing, but at the close of the next day's record, he wrote, "Captain sober today."

1946

JANUARY.							FEBRUARY.							MARCH.							APRIL.							
S	M	T	W	Th	F	S	S	M	T	W	Th	F	S	S	M	T	W	Th	F	S	S	M	T	W	Th	F	S	
-	-	1	2	3	4	5	3	-	-	-	-	1	2	3	-	-	-	-	1	2	-	1	2	3	4	5	6	
6	7	8	9	10	11	12	3	4	5	6	7	8	9	3	4	5	6	7	8	9	7	8	9	10	11	12	13	
13	14	15	16	17	18	19	10	11	12	13	14	15	16	10	11	12	13	14	15	16	14	15	16	17	18	19	20	
20	21	22	23	24	25	26	17	18	19	20	21	22	23	17	18	19	20	21	22	23	21	22	23	24	25	26	27	
27	28	29	30	31	-	-	24	25	26	27	28	-	-	24	25	26	27	28	29	30	28	29	30	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	31	-	-	-	-	-	-	-	-	-	-	-	-	-		
MAY.							JUNE.							JULY.							AUGUST.							
-	-	-	1	2	3	4	-	-	-	-	-	-	1	-	1	2	3	4	5	6	-	-	-	-	-	1	2	3
5	6	7	8	9	10	11	2	3	4	5	6	7	8	7	8	9	10	11	12	13	4	5	6	7	8	9	10	
12	13	14	15	16	17	18	9	10	11	12	13	14	15	14	15	16	17	18	19	20	11	12	13	14	15	16	17	
19	20	21	22	23	24	25	16	17	18	19	20	21	22	21	22	23	24	25	26	27	18	19	20	21	22	23	24	
26	27	28	29	30	31	-	23	24	25	26	27	28	29	28	29	30	31	-	-	-	25	26	27	28	29	30	31	
-	-	-	-	-	-	-	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SEPTEMBER.							OCTOBER.							NOVEMBER.							DECEMBER.							
1	2	3	4	5	6	7	6	7	8	9	10	11	12	3	4	5	6	7	8	9	1	2	3	4	5	6	7	
8	9	10	11	12	13	14	13	14	15	16	17	18	19	10	11	12	13	14	15	16	8	9	10	11	12	13	14	
15	16	17	18	19	20	21	20	21	22	23	24	25	26	17	18	19	20	21	22	23	15	16	17	18	19	20	21	
22	23	24	25	26	27	28	27	28	29	30	31	-	-	24	25	26	27	28	29	30	22	23	24	25	26	27	28	
29	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29	30	31	-	-	-	-		

EXPLANATIONS, SIGNS, AND ABBREVIATIONS

In accord with long time usage the left and right hand calendar pages beginning respectively on pages 14 and 15 will be seen to contain numerous symbols (known as signs) and abbreviations which denote the many happenings in the heavens and on the earth which the OFA purports to set forth. On this page and the two following we include a brief summary of these hieroglyphics — the careful study of which will reward you with not only greater appreciation of this almanac but also stimulation with regard to further study of the wonders of the universe.

Names and Characters of the Principal Planets.

☉ The Sun.	♀ Venus.	♃ Jupiter.	♆ Neptune.
☾ The Moon.	♁ The Earth.	♄ Saturn.	♇ Pluto.
☿ Mercury.	♂ Mars.	♅ Uranus.	

Names and Characters of the Aspects.

♁ Conjunction, or in the same degree.	♁ Dragon's Head, or Ascending Node.
☐ Quadrature, 90 degrees.	♁ Dragon's Tail, or Descending Node.
♁ Opposition, or 180 degrees.	

Names and Characters of the Signs of the Zodiac.

1. ♈ Aries, head.	5. ♌ Leo, heart.	9. ♐ Sagittarius, thighs.
2. ♉ Taurus, neck.	6. ♍ Virgo, belly.	10. ♑ Capricornus, knees.
3. ♊ Gemini, arms.	7. ♎ Libra, reins.	11. ♒ Aquarius, legs.
4. ♋ Cancer, breast.	8. ♏ Scorpio, secrets.	12. ♑♈ Pisces, feet.

Chronological Cycles for 1945.

Golden Number 8	Solar Cycle 22	Roman Indiction 13
Epact 16	Dominical Letter G	Year of Julian Period 6658

Movable Feasts and Fasts for 1945.

Septuagesima Sun., Jan. 28	Good Friday, Mar. 30	Whitsunday, May 20
Shrove Sunday, Feb. 11	Easter Sunday, Apr. 1	Trinity Sunday, May 27
Ash Wednesday, Feb. 14	Low Sunday, Apr. 8	Corpus Christi, May 31
1st Sun. in Lent Feb. 18	Rogation Sunday, May 6	1st Sunday in Advent, Dec. 2
Palm Sunday Mar. 25	Ascension Day, May 10	

THE SEASONS, 1945

Eastern War Time

Winter Solstice (Winter, 1944), December 21, 7:15 P.M.—	Sun enters Capricornus, ♑
Vernal Equinox (Spring, 1945), March 20, 7:38 P.M.—	" " Aries, ♈
Summer Solstice (Summer), June 21, 2:52 P.M.—	" " Cancer, ♋
Autumnal Equinox (Autumn), September 23, 5:50 A.M.—	" " Libra, ♎
Winter Solstice (Winter), December 22, 1:04 A.M.—	" " Capricornus, ♑

EARTH IN PERIHELION AND APHELION, 1945

The Earth will be in Perihelion on January 1, 7 P.M., distant from the Sun 91,342,000 miles. The Earth will be in Aphelion on July 5, 6 A.M., distant from the Sun 94,550,000 miles.

CALCULATIONS AND CORRECTIONS

(For Outside New England, see Page 12)

While the predictions of the Calendar pages are made for the latitude and longitude of Boston and are in *Eastern War Time*, i.e., one hour fast of Eastern Standard Time, the time of the 75th meridian west of Greenwich, they may be used throughout the United States by applying the corrections given here and in the tables on pages 7 and 12.

The Table given below contains corrections in minutes of time for a number of important places in New England, and any other place in New England can use the correction of the place in the Table which is nearest in longitude to itself.

For the Rising and Setting of the Sun, Moon and Planets add tabular quantity if longitude from Boston is West, but subtract it if East; and this will give the value when the place is in or near the same latitude as Boston. When the latitude of the place differs considerably from that of Boston, the correction will also be right when the celestial body is on or near the Equator; but when it is remote from the Equator so much accuracy cannot be expected.

	East.		West.		West.
Eastport, Mo.	16 min.	Concord, N.H.	2 min.	Springfield, Mass.	6 min.
Bangor, Ms.	9 "	Nashua, N.H.	2 "	Williamstown, Mass.	9 "
Aucusta, Ma.	5 "	Plymouth, N.H.	3 "	Newport, R.I.	1 "
Lewiston, Mo.	4 "	Keene, N.H.	5 "	Providence, R.I.	1 "
Portland, Me.	3 "	Montpelier, Vt.	6 "	Woonsocket, R.I.	2 "
Blddeford, Me.	2 "	Brattleboro, Vt.	6 "	New London, Conn.	4 "
Portsmouth, N.H.	1 "	Rutland, Vt.	8 "	Willimantic, Conn.	5 "
Provincetown, Mass.	4 "	Burlington, Vt.	9 "	Hartford, Conn.	6 "
Gloucester, Mass.	2 "	Lowell, Mass.	1 "	New Haven, Conn.	7 "
Plymouth, Mass.	2 "	Worcester, Mass.	3 "	Bridgeport, Conn.	9 "

MORNING AND EVENING STARS, 1945

(A Planet is called *Morning Star* when it is above the horizon at sunrise, and *Evening Star* when it is above the horizon at sunset. More precisely, it is a *Morning Star* when it is less than 180° west of the Sun in right ascension and *Evening Star* when it is less than 180° east. When the planet is near conjunction or opposition, the distinction is unimportant.)

Mercury will be favorably situated for being seen as an *Evening Star* when near its greatest eastern elongations, about March 26, July 23, and November 17. On these dates it will set 1h 43m, 1h 17m, and 0h 49m, respectively, after sunset. It will be seen as a *Morning Star* when near its greatest western elongations, about January 12, May 11, September 6, and December 26, on which dates it will rise 1h 37m, 0h, 54m, 1h 31m, and 1h 46 m, respectively, before sunrise.

Venus will be an *Evening Star* until April 15 and a *Morning Star* for the remainder of the year. It will be brightest as an *Evening Star* early in March and, as a *Morning Star*, in the latter part of May.

Mars will be a *Morning Star* throughout the year.

Jupiter will be a *Morning Star* until March 13 when it reaches opposition, an *Evening Star* from March 13 until it comes to conjunction on October 1, and then a *Morning Star* for the remainder of the year.

Saturn will be an *Evening Star* until it reaches conjunction on July 6, and will then be a *Morning Star* for the remainder of the year.

Glossary of Astronomical Terms, etc.

abol. . . . abolished

Aet. . . . age

An. Ecl. . . . see Eclipse, Annular.

Aph. — **Aphelion** . . . Planet revolving about Sun reaches point in its orbit farthest away from the Sun.

Apo. — **Apogee** . . . Moon reaches point in its orbit farthest from Earth.

Appulse . . . if during eclipse Moon passes only through the penumbra.

b. — born.

G. . . . Dominical letter for 1945 — marks all of the 52 Sundays.

Aspect . . . description of the relative position of two or more bodies in the solar system. These are described by signs, etc., on the calendar pages thus $\odot \zeta \mathcal{J}$, etc. By consulting the meaning of the signs and aspects on the opposite page, you will arrive at the meaning for the "sign language" used as the example; viz., Conjunction (\odot) of Mars (ζ) and the Jupiter (\mathcal{J}) occurs on this day. (See par. 2, page 4.)

Conj. — **conjunction** . . . moment of closest approach to each other of any two heavenly bodies.

conscr. . . . consecrated.

d. . . . died.

declination (see top left hand calendar pages) . . . measure of angular distance any celestial object lies perpendicularly north or south of celestial equator. Exactly analogous to terrestrial latitude. OFA gives declination at time each day the Sun is due South.

Dominical Letter . . . used in reckoning civil calendars.

Eclipse . . . conjunction or opposition of sun and moon occurs with moon at or near a node.

Eclipse, annular . . . when sunlight shows around the Moon during the eclipse.

Eclipse, lunar . . . opposition of Sun and Moon with moon at or near node.

Eclipse, solar . . . conjunction of Sun and Moon with Moon at or near node.

Ecliptic . . . that circle in which the plane of the orbit of the Earth about the Sun would if extended cut the celestial sphere — or the apparent path of the Sun in the sky in a year due to the Earth's revolution about the Sun each year.

El. — **elongation** . . . apparent angular distance of a member of the solar system from the Sun as seen from the Earth.

Epact . . . used in reckoning ecclesiastical calendars.

Eq. . . . equator.

Equinox, autumnal . . . Sun passes from northern to southern hemisphere. Fall.

Equinox, vernal . . . sun passes from southern to northern hemisphere. Spring.

E.W.T. . . . Eastern War Time.

Feasts and Fasts . . . In the religious calendars, many "observable" days change each year with the date Easter falls on. The OFA endeavors to list the important Protestant, Catholic, and Jewish observances.

fd. . . . founded.

Full Sea (Morn and Eve) . . . the time the tide is high in the morning and in the evening at Commonwealth Pier, Boston. A correction table in the OFA also adjusts this time for other places. (See page 7.)

Gr. El. . . . greatest elongation.

Geocentric . . . measure of celestial longitude and latitude when observer is at center of the Earth.

Golden Number . . . used in reckoning civil calendars.

Heliocentric . . . measure of celestial longitude and latitude when observer is at center of the Sun.

Inf. — Inferior . . . Inferior conjunction is when the Planet is between the Sun and the Earth.

Julian Period . . . First year was 4713 B.C. Its length is 7930 years.

k. . . . killed.

Key . . . columns of letters marked thus refer to correction table on page 12 so that the times given may be adjusted to localities other than Boston.

Lat. — latitude.

Moon's Age . . . average time elapsing between new moons (max. $29\frac{1}{2}$ days). Calculated when Moon is due South.

(D) **First Quarter** . . . moon in quadrature East or one half of the side of the moon toward the earth is illuminated.

(O) **Full Moon** . . . moon reaches opposition.

(C) **Last Quarter** . . . moon in quadrature West.

(●) **New Moon** . . . Sun and Moon in conjunction.

Moon's Phases . . . Aspects of Moon and Sun.

Moon's Place . . . Moon's position in the Zodiac when due South or which "sign" it is in. See page 4 — par. 3.

Moon Rise and Set . . . as used in the OFA apply only to risings and settings between sunset and sunrise . . . or during the night.

Moon Runs High or Low . . . day of month Moon Souths highest or lowest above the horizon.

Moon Souths . . . Moon exactly above South point of observer's horizon.

Node . . . when a Planet or Moon in its motion crosses the ecliptic.

Node, Ascending . . . Planet or Moon crosses ecliptic from South to North.

Node, Descending . . . Planet or Moon crosses ecliptic from North to South.

Occultations . . . eclipses of Stars by the Moon.

Opposition . . . time when Sun, and Moon or Planet appear on opposite sides of the sky (elongation 180 degrees).

O.S. — Old Style . . . was when calendar was eleven days "out of whack." In September, 1752, the 3rd was reckoned as the 14th, to make present calendar.

Penumbra . . . concentric area of partial shadow around the umbra.

Peri. — Perigee . . . Moon reaches point in its orbit closest to Earth.

Peri. — Perihelion . . . Planet revolving about the Sun reaches point in its orbit closest to Sun.

Quadrature . . . Moon or Planet lies a quarter turn of the sky from the Sun.

R.A. — Right Ascension . . . the measure Eastward along the celestial equator of any celestial body from the vernal equinox to the point where the circle which passes through the object perpendicular to the celestial equator intersects the latter.

Rain . . . drops large enough to splatter on the old man's bald head.

Rej. — rejects.

Roman Indiction . . . used in reckoning ecclesiastical calendars.

Seasons . . . boundary points are the two solstices and two equinoxes.

Snow . . . when a cat's tracks are visible on the barn roof.

Solar Cycle . . . used in reckoning civil calendars.

Solstice, Summer . . . point at which the Sun is farthest north of the celestial equator, passing overhead on the Tropic of Cancer. Beginning of Summer.

Solstice, Winter . . . limit of Sun's journey south of the celestial equator, passing overhead on the Tropic of Capricorn. Beginning of Winter.

Star, Evening . . . above horizon at Sunset.

Star, Morning . . . above horizon at Sunrise.

Stat. — stationary . . . when the apparent movement of a Planet against the background of Stars stops — just before same comes to opposition.

Sunrise and Sunset . . . visible rising and setting of Sun's upper limb across the unobstructed horizon of an observer whose eyes are 15 feet above ground level.

Sun Slow . . . the times given in this column must be added to your Sun Dial to arrive at the correct time.

Sup. — Superior (Superior Conjunction is when the Sun is between the Planet and the Earth.)

Tides, heights of . . . at Commonwealth Pier, Boston. See correction table on page 7 for adjustments for other places.

Twilight . . . begins or ends when stars of the sixth magnitude disappear or appear at the Zenith — or the Sun is appr. 18 degrees below the horizon.

Umbra . . . deep shadow through which the Moon passes during eclipse.

Weather Indications . . . in italics on the right hand calendar pages indicate the weather over, as a rule, three or four days time as shown by the spread of the words down the page.

w. . . . with.

Zenith . . . point in heavens directly over observer's head.

Zodiac . . . sixteen degree sky road outside of which moon and planets never wander. It is divided into twelve equal divisions called the Signs of the Zodiac, and forms much of the basis of some astrology — and superstition. See page 4 — par. 3.

TIDE CORRECTIONS

(For full explanation see page 11, par 2)

To obtain the time and height of high water at any place, apply the differences in accordance with the sign given to the daily predictions for Boston (Commonwealth Piers). Where a value in the "height difference" column is preceded by a *, the height at Boston should be multiplied by this ratio.

	Time Differ- ence h.m.	Height Differ- ence Feet		Time Differ- ence h.m.	Height Differ- ence Feet
MAINE			PENNSYLVANIA		
Augusta	+3 50	*0.4	Philadelphia	+2 29	*0.5
Bangor	-0 05	+3.6	DELAWARE		
Bar Harbor	-0 33	+1.1	Rehoboth	-3 37	*0.4
Boothbay Harbor	-0 20	-0.8	MARYLAND		
Eastport	-0 28	*1.9	Baltimore	-4 25	*0.1
Old Orchard	-0 10	-0.7	Ocean City	-3 57	*0.4
Portland	-0 10	-0.6	DISTRICT OF COLUMBIA		
Stonington	-0 30	+0.2	Washington	-3 08	*0.3
NEW HAMPSHIRE			VIRGINIA		
Hampton	+0 15	-1.2	Norfolk	-1 54	*0.3
MASSACHUSETTS			Virginia Beach	-3 14	*0.3
Fall River	-3 16	*0.5	NORTH CAROLINA		
Falmouth	-0 40	*1.1	Beaufort	-2 59	*0.3
Hyannisport	+0 45	*0.3	Carolina Beach	-3 30	*0.4
Lynn	+0 05	-0.2	SOUTH CAROLINA		
Marblehead	-0 05	-0.3	Myrtle Beach	-3 45	*0.5
Marion	-3 16	*0.4	Charleston	-3 15	*0.5
Monument Beach	-3 06	*0.4	GEORGIA		
Nantasket	+0 10	+0.1	St. Simon's Island	-2 51	*0.7
Nantucket	+0 50	*0.3	Savannah	-2 40	*0.8
New Bedford	-3 21	*0.4	Tybee Beach	-3 26	*0.8
Oak Bluffs	+0 05	*0.2	FLORIDA		
Onset	-3 06	*0.5	Daytona	-3 20	*0.4
Plymouth	0 00	+0.1	Fort Lauderdale	-2 15	*0.3
Provincetown	+0 15	-0.3	Jacksonville	-0 40	*0.1
Scituate	-0 05	-0.5	Miami	-3 00	*0.3
Wellfleet	+0 20	+0.6	Palm Beach	-3 20	*0.3
Woods Hole	-3 01	*0.2	Port Everglades	-2 15	*0.3
RHODE ISLAND			St. Augustine	-2 20	*0.5
Block Island	-3 21	*0.3	St. Petersburg	+3 58	*0.2
Narragansett Pier	-3 31	*0.4	WASHINGTON		
Newport	-3 31	*0.4	Ilwaco	+1 44	-3.5
Providence	-3 11	*0.5	Port Townsend	+5 04	*0.5
Watch Hill	-2 06	*0.3	Seattle	+5 37	-2.0
CONNECTICUT			OREGON		
Long Island Sound	-0 02	*0.7	Astoria	+1 37	-3.3
New London	-1 47	*0.3	Cape Arago	+1 19	-4.8
NEW YORK			Yaquina Head	+1 12	-3.7
Coney Island	-3 00	*0.5	CALIFORNIA		
Long Beach	-3 57	*0.5	Catalina Island	-1 33	-5.9
Long Island Sound	+0 08	*0.7	Crescent City	+0 56	-5.0
New York City	-2 50	*0.5	Eureka	+1 20	-5.0
Ocean Beach	-3 57	*0.4	Long Beach	-1 37	-5.5
Southampton	-3 22	*0.3	Monterey	-0 03	*0.4
NEW JERSEY			Point Mendocino	+0 24	*0.4
Atlantic City	-3 57	*0.5	San Diego	-1 35	-5.9
Bayside	-0 24	*0.6	San Francisco	+0 59	*0.4
Cape May	-3 37	*0.5	Santa Barbara	-1 19	-6.0
Ocean City	-3 17	*0.4	Santa Cruz	+0 08	*0.4
Seabright					
to	-3 44	*0.5			
Seaside Park					

NEW SUNSPOT CYCLE

The first spot of the new cycle was found December 20, 1942 in No. Latitude 32°. On May 16, 1943, a group appeared in So. Latitude 41° — the largest ever photographed in latitudes higher than forty degrees. During 1945 sunspot activity is expected to be practically nil — but will increase during the year.

ECLIPSES FOR THE YEAR 1945

In the year 1945 there will be four eclipses, two of the Sun and two of the Moon.

I. *An Annular Eclipse of the Sun*, January 14, 1945, invisible in the United States. The path of the annular phase, which averages about ten miles in width, extends from Longitude $26^{\circ} 39'$ East, Latitude $31^{\circ} 21'$ South, a point near Jamestown, South Africa, across the Indian Ocean, between Tasmania and the Australian mainland, to Longitude $176^{\circ} 45'$ West, Latitude $23^{\circ} 37'$ South. As a partial eclipse of the Sun, the phenomenon will be visible at sunrise along the east coast of Africa south of Somaliland, during the morning hours throughout the southern reaches of the Indian Ocean, and in the afternoon in Australia, New Zealand, British New Guinea; the Solomons and New Hebrides, and near sunset in the Fiji Islands.

II. *A Partial Eclipse of the Moon*, June 25, 1945, invisible in the United States. The beginning of this eclipse will be visible generally in the Pacific Ocean, the Antarctic regions, Australia, eastern and southeastern Asia, and the Indian Ocean. The end of the eclipse will be visible generally to observers in the western half of the Pacific Ocean, the Antarctic regions, Australia, the Indian Ocean, Asia, and the eastern and southern parts of Africa.

III. *A Total Eclipse of the Sun*, July 9, 1945, visible as a partial eclipse of the Sun throughout the United States, and as a total eclipse at or about sunrise along that part of the path of totality which lies within Idaho and Montana. The path of totality, which varies in width from approximately twenty miles at the points of first and last contact with the earth to sixty miles at the centre point of the path, makes first contact with the earth in the southwest corner of Valley County, Idaho. There the eclipse will be total as the sun rises. Thence the path of totality sweeps northeastward into Montana, where Helena lies within the path. At Helena the partial phase of the eclipse will be in progress at sunrise, totality will occur at 6:15 A.M.M.W.T. and last but a few seconds. Swinging across the Canadian border at about the mid-point of the northern boundary of Montana, the path of totality sweeps north and east across central Canada, Hudson Bay, central Greenland, north-central Norway and Sweden, Finland, across Russia, north of Leningrad and Moscow and south of Kuibishev, to leave the earth in Turkestan at Longitude $72^{\circ} 33'$ East, Latitude $41^{\circ} 43'$ North. As a partial eclipse, the magnitude of which will be the greater the nearer the observer is to the path of totality, the phenomenon will be visible throughout almost all North America, all Europe, North Africa and the Middle East. Along the east coast of the United States the eclipse will begin at approximately 7:00 A.M.E.W.T. and end about 9:00 A.M.E.W.T.; at maximum phase, which occurs on the east coast at approximately 8:00 A.M.E.W.T., the moon will cover about 50% of the Sun's diameter. On the west coast of the United States the eclipse will have passed maximum phase at sunrise and will end at approximately 6:00 A.M.P.W.T.

IV. *A Total Eclipse of the Moon*, December 18, 1945, visible throughout the United States. The beginning of the eclipse will be visible generally in central and western Asia, Europe, Africa, the western part of the Indian Ocean, the Atlantic and Arctic Oceans, North and South America, and the extreme southeastern part of the Pacific Ocean. The eclipse's ending will be visible generally in the extreme northern part of Asia, Europe, Africa, except the extreme eastern part, the Atlantic and Arctic Oceans, North America and South America. The Circumstances of the Eclipse are as follows:

Moon enters penumbra	December 18,	7:38 P.M., E.W.T.
Moon enters umbra		8:37 P.M.
Middle of the eclipse		10:20 P.M.
Moon leaves umbra	December 19,	12:03 A.M.
Moon leaves penumbra		1:02 A.M.

OCCULTATIONS OF ALDEBARAN, 1945

No occultations of the bright star Aldebaran (Alpha Tauri) will be visible to observers in or near Boston during 1945.

VENUS, MARS, JUPITER AND SATURN, 1945.

Below are given the times of the rising or setting of the Planets named, on the first, eleventh and twenty-first days of each month. The time of the rising or setting of any one of said Planets between the days named may be found with sufficient accuracy by interpolation. For explanation of keys (used in adjusting times given to your town) see pages 11 and 12 — especially if you live outside New England.

1945		VENUS h. m.	Key	MARS h. m.	Key	JUPITER h. m.	Key	SATURN h. m.	Key
JANUARY	1st	sets 9 01P.M.	E	rises 7 19A.M.	P	rises 11 41P.M.	H	sets 7 59A.M.	P
"	11th	" 9 22P.M.	G	" 7 12A.M.	P	" 11 03P.M.	H	" 7 17A.M.	P
"	21st	" 9 40P.M.	H	" 7 04A.M.	P	" 10 23P.M.	H	" 6 34A.M.	P
FEBRUARY	1st	sets 9 57P.M.	I	rises 6 53A.M.	P	rises 9 37P.M.	H	sets 5 48A.M.	P
"	11th	" 10 09P.M.	J	" 6 41A.M.	O	" 8 53P.M.	H	" 5 07A.M.	P
"	21st	" 10 18P.M.	L	" 6 26A.M.	O	" 8 09P.M.	H	" 4 26A.M.	P
MARCH	1st	sets 10 20P.M.	M	rises 6 13A.M.	N	rises 7 32P.M.	H	sets 3 54A.M.	P
"	11th	" 10 14P.M.	N	" 5 58A.M.	M	rises 6 47P.M.	H	" 3 15A.M.	P
"	21st	" 9 54P.M.	O	" 5 37A.M.	L	sets 6 39A.M.	J	" 2 37A.M.	P
APRIL	1st	sets 9 08P.M.	O	rises 5 14A.M.	L	sets 5 53A.M.	J	sets 1 55A.M.	P
"	11th	sets 8 02P.M.	N	" 4 53A.M.	K	" 5 11A.M.	K	" 1 19A.M.	P
"	21st	rises 5 09A.M.	E	" 4 33A.M.	J	" 4 30A.M.	K	" 12 42A.M.	P
MAY	1st	rises 4 31A.M.	F	rises 4 11A.M.	I	sets 3 49A.M.	K	sets 12 06A.M.	P
"	11th	" 4 02A.M.	G	" 3 49A.M.	I	" 3 09A.M.	K	" 11 28P.M.	P
"	21st	" 3 39A.M.	G	" 3 27A.M.	H	" 2 30A.M.	K	" 10 53P.M.	P
JUNE	1st	rises 3 18A.M.	G	rises 3 03A.M.	G	sets 1 47A.M.	K	sets 10 15P.M.	P
"	11th	" 3 02A.M.	F	" 2 41A.M.	F	" 1 09A.M.	K	" 9 40P.M.	P
"	21st	" 2 48A.M.	E	" 2 20A.M.	E	" 12 31A.M.	J	" 9 06P.M.	P
JULY	1st	rises 2 37A.M.	D	rises 2 00A.M.	E	sets 11 51P.M.	J	sets 8 32P.M.	P
"	11th	" 2 30A.M.	D	" 1 41A.M.	D	" 11 15P.M.	J	rises 5 07A.M.	B
"	21st	" 2 27A.M.	C	" 1 23A.M.	C	" 10 39P.M.	J	" 4 34A.M.	B
AUGUST	1st	rises 2 29A.M.	B	rises 1 05A.M.	C	sets 10 00P.M.	J	rises 3 57A.M.	B
"	11th	" 2 36A.M.	B	" 12 47A.M.	B	" 9 24P.M.	J	" 3 23A.M.	B
"	21st	" 2 49A.M.	B	" 12 32A.M.	B	" 8 49P.M.	I	" 2 50A.M.	B
SEPTEMBER	1st	rises 3 07A.M.	C	rises 12 16A.M.	B	sets 8 11P.M.	I	rises 2 12A.M.	B
"	11th	" 3 27A.M.	D	" 12 01A.M.	A	" 7 40P.M.	I	" 1 38A.M.	B
"	21st	" 3 48A.M.	E	" 11 45P.M.	A	sets 7 02P.M.	I	" 1 02A.M.	B
OCTOBER	1st	rises 4 10A.M.	F	rises 11 30P.M.	B	rises 6 42A.M.	I	rises 12 27A.M.	B
"	11th	" 4 33A.M.	H	" 11 14P.M.	B	" 6 13A.M.	J	" 11 46P.M.	B
"	21st	" 4 56A.M.	I	" 10 55P.M.	B	" 5 45A.M.	J	" 11 09P.M.	B
NOVEMBER	1st	rises 5 22A.M.	J	rises 10 35P.M.	B	rises 5 13A.M.	J	rises 10 25P.M.	B
"	11th	" 5 47A.M.	K	" 10 07P.M.	B	" 4 44A.M.	J	" 9 47P.M.	B
"	21st	" 6 12A.M.	M	" 9 37P.M.	B	" 4 15A.M.	J	" 9 07P.M.	B
DECEMBER	1st	rises 6 37A.M.	N	rises 9 01P.M.	B	rises 3 45A.M.	K	rises 8 25P.M.	B
"	11th	" 7 02A.M.	O	" 8 19P.M.	B	" 3 13A.M.	K	" 7 43P.M.	B
"	21st	" 7 25A.M.	P	" 7 29P.M.	A	" 2 41A.M.	K	" 7 01P.M.	B
"	31st	rises 7 44A.M.	P	rises 6 33P.M.	A	rises 2 09A.M.	K	rises 6 18P.M.	B

LENGTH OF TWILIGHT

Subtract from time of sunrise for dawn.

Add to time of sunset for dark.

Latitude	25°N	31°N	37°N	43°N	48°N
	to 30°N	to 36°N	to 42°N	to 47°N	to 49°N
	h m	h m	h m	h m	h m
Jan. 1 to Apr. 11	1 20	1 26	1 33	1 42	1 50
Apr. 11 to May 3	1 23	1 28	1 39	1 51	2 04
May 3 to May 15	1 26	1 34	1 47	2 02	2 22
May 15 to May 26	1 29	1 38	1 52	2 13	2 42
May 26 to July 23	1 32	1 43	1 59	2 27	—
July 23 to Aug. 4	1 29	1 38	1 52	2 13	2 42
Aug. 4 to Aug. 15	1 26	1 34	1 47	2 02	2 22
Aug. 15 to Sept. 6	1 23	1 28	1 39	1 51	2 04
Sept. 6 to Dec. 31	1 20	1 26	1 33	1 42	1 50

CALCULATIONS AND CORRECTIONS IF YOU LIVE OUTSIDE NEW ENGLAND

(For New England — See Page Four)

Times obtained for a place other than Boston by the conversions described below will in every case be in the war Time of the time zone in which the place lies. Some States by State ordinance do not observe national War Time during the whole or part of the year. To obtain the time in everyday use in those States during the period such State ordinances are in effect one hour should be subtracted from the time derived by conversion. If during any part of the year 1945 the United Nations win the final victory and War Time is terminated nationally, one hour should be subtracted from the times of day obtained from the Almanac to obtain the time in common use, except in those States or Cities in which War Time or "daylight saving" time may be continued by State or local ordinances.

A direct reading of the figures on the Almanac pages gives information that applies precisely and solely to Boston. The examples which follow interpret the significance of this information and illustrate the way to get the same information for a place outside New England, such as Dallas. The date, April 11, used for the purpose of the illustrations, has been chosen at random.

Sunrise and Sunset. The times of sunrise and sunset at Boston on April 11 are read directly from columns 4 and 6 on page 20. The key letters adjacent to these times, in columns 5 and 7, are indices to which War page 12 whereby the times of sunrise and sunset at Boston are converted into those for other key cities, to wit:—

BOSTON		DALLAS	
Sunrise	6:14 A.M.E.W.T.	Sunrise (Boston)	6:14 A.M.E.W.T.
Key Letter	G	Correction (Column G, page 12)	+ :52
		Sunrise (Dallas)	7:06 A.M.C.W.T.
Sunset	7:17 P.M.E.W.T.	Sunset (Boston)	7:17 P.M.E.W.T.
Key letter	K	Correction (Column K, page 12)	+ :35
		Sunset (Dallas)	7:52 P.M.C.W.T.

Dawn and Dark. The approximate times dawn will break and dark descend are found by applying the length of twilight taken from the table on page 9 to the times of sunrise and sunset given on the calendar pages. The latitude of the locality determines the column of the table from which the length of twilight is to be selected.

BOSTON		DALLAS	
(Latitude 42° 22' N.)		(Latitude 32° 48' N.)	
Sunrise	6:14 A.M.	Sunrise	7:06 A.M.
Subtract length of twilight (Column 4 of table)	1:39	Subtract length of twilight (Column 4 of table)	1:28
Dawn breaks	4:35 A.M.E.W.T.	Dawn breaks	5:38 A.M.C.W.T.
Sunset	7:17 P.M.	Sunset	7:52 P.M.
Add length of twilight	1:39	Add length of twilight	1:28
Dark descends	8:56 P.M.E.W.T.	Dark descends	9:20 P.M.C.W.T.

Sun Slow. The column headed "Sun Slow" is of primary use to sundial enthusiasts. The figures therein tell how slow on each day the time indicated by a properly adjusted and graduated sundial will be of the time indicated by a clock. On April 11 sun time in Boston will be 45 minutes slow of Eastern War Time. The time indicated by a sundial located elsewhere than in Boston is converted to clock time by applying two corrections, the "sun slow" correction for Boston and that for the locality given in Column I of the table on page 12.

BOSTON		DALLAS	
Sundial time	3:34 P.M.	Sundial time	10:17 A.M.
Sun slow	+ :45	Sun slow	+ :45
Eastern War Time	4:09 P.M.	Correction (Column I, page 12)	+ :43
		Central War Time	11:45 A.M.

Length of Day. The figures in the column headed "Length of Day" give directly the length of time the Sun will be above the horizon at Boston. The length of day in other localities is found by subtracting the time of sunrise from that of sunset for each locality. (See *Sunrise and Sunset* above).

BOSTON		DALLAS	
Length of day	13h 02m	Sunset	7:52 P.M.
(From calendar pages)		Sunrise	7:06 A.M.
		Length of Day	12h 46m

High Tides. The figures for Full Sea in Columns 11 and 12 of the left hand Almanac pages 14-36 are the times of high tide at Commonwealth Pier in Boston Harbor. The heights of these tides are given on the right hand pages 15-37. The heights are reckoned from Mean Low Water: each day has a set of figures — upper for the morning — and lower for the evening. Since Gulf ports are not beset with the tidal problems of ports on the open ocean, the conversion of the times of the tides at Boston to those of Miami is given by way of illustration.

BOSTON		MIAMI	
High Tide	11:00 A.M.E.W.T.	High tide (Boston)	11:00 A.M.
		Correction page 7	-3:00
Height	11.0 feet	High tide (Miami)	8:00 A.M.E.W.T.
		Height (Miami)	3.3 feet
		(11.0 x 0.3)	

Moonrise and Moonset. The procedure for finding the times of moonrise and moonset follows that for finding those of sunrise and sunset except that, for localities outside New England, the constant additional correction taken from Column 3 on page 12 must be applied.

BOSTON		DALLAS	
Moonrise	6:04 A.M.E.W.T.	Moonrise (Boston)	*6:04 A.M.
Key letter		Correction (Column I, page 12)	+ :43
		Correction (Column 3, page 12)	+ :04
		Moonrise (Dallas)	6:51 A.M.C.W.T.

Moon Souths. The time the moon souths in Boston is converted to the time it is due south in a locality other than Boston by applying the appropriate corrections from Columns I and 3 on page 12.

BOSTON		DALLAS	
Moon souths	12:08 P.M.E.W.T.	Moon souths (Boston)	12:08 P.M.
		Correction (Column I, page 12)	+ :43
		Correction (Column 3, page 12)	+ :04
			12:55 P.M.C.W.T.

The other information concerning the Moon contained on the left hand Almanac pages applies without correction throughout the United States.

Risings and Settings of the Planets. The times of the rising and setting of the naked eye Planets with the exception of Mercury are given for Boston in the table on page 9. The procedure for converting these times to those of other localities follows that for converting the times of sunrise and sunset given above.

Planetary Aspects. The planetary aspects indicated by the symbols and abbreviations on the right hand Almanac pages 15-37, are explained on pages 4, 5 and 6.

PRINCIPAL HOLIDAYS, ETC. IN 1945

America has no nationwide holidays. Each state determines its own. In the table that follows (*) indicates these quite generally observed by all states; (**) indicates those for only certain states; and (***) indicates days usually observed in some localities though probably not observed as holidays. Only continental United States is covered here. The President has asked that no holidays be observed by war workers except Christmas.

Jan. 1 (*)	May 10 (**) Memorial Day (N. C. & S. C.)
Jan. 8 (**) Battle of New Orleans	May 13 (***) Mother's Day
Jan. 19 (**) Robert E. Lee's Birthday	May 20 (**) Mecklenburg Day (N. C.)
Jan. 20 (***) Inauguration Day	May 22 (***) Nat'l Marine Day
Jan. 29 (**) McKinley's Birthday	May 30 (*) Decoration or Memorial Day
Feb. 12 (**) Abraham Lincoln's Birthday	June 3 (**) Jefferson Davis Day (Ala., Ark., Fla., Ga., La., Miss., S. C., Tenn., Tex. & Va.)
Feb. 13 (**) Mardi Gras	June 14 (**) Flag Day (Ia., Mo. & Pa.)
Feb. 14 (**) Admission Day (Arizona)	June 15 (**) Pioneer Day (Idaho)
Feb. 14 (***) Valentine's Day	June 17 (**) Bunker Hill Day (Suffolk County, Mass.)
Feb. 15 (***) Susan B. Anthony Day	June 17 (***) Father's Day
Feb. 22 (*) George Washington's Birthday	June 20 (**) West Virginia Day
Mar. 1 (**) State Day (Nebraska)	July 4 (*) Independence Day
Mar. 2 (**) Texas Independence Day	July 13 (**) Forrest's Day (Tenn.)
Mar. 7 (**) Burbank Day (Cal.)	July 24 (**) Pioneer Day (Utah)
Mar. 15 (**) Jackson Day (Tennessee)	Aug. 1 (**) Colorado Day
Mar. 17 (**) St. Patrick's or Evacuation Day	Aug. 4 (***) Coast Guard Day
Mar. 25 (**) Maryland Day	Aug. 16 (**) Bennington, Vt. Battle Day
Mar. 30 (**) Good Friday (Conn., Del., Fla., La., Md., Minn., N. J., Penn. & Tenn.)	Aug. 19 (***) National Aviation Day
Apr. 1 (**) State Election (Michigan)	Aug. 30 (**) Huey Long Day (La.)
Apr. 2 (**) Arbor Day (Arizona)	Sept. 3 (*) Labor Day
Apr. 2 (**) Easter Monday (N. Car.)	Sept. 9 (**) Admission Day (Cal.)
Apr. 6 (**) Army Day	Sept. 10 Election Day (**) Maine
Apr. 12 (**) Halifax Day (N. Car.)	Sept. 12 (**) Defender's Day (Md.)
Apr. 13 (**) Jefferson Day (Mo., Okla., Va.)	Sept. 17 (***) Constitution Day
Apr. 14 (***) Pan American Day	Sept. 28 (***) Am. Indian Day
Apr. 19 (**) Patriots' Day (Me., Mass.)	Oct. 6 (**) Missouri Day
Apr. 21 (**) San Jacinto Day (Texas)	Oct. 12 (*) Columbus Day
Apr. 22 (**) Arbor Day (Neb.)	Oct. 27 (***) Navy Day
Apr. 24 Arbor & Bird Day (**) (Mass.)	Oct. 31 (**) Nevada Day
Apr. 26 (**) Fast Day (N. H.)	Nov. 1 (**) All Saints' Day (La.)
Apr. 26 (**) Memorial Day (Fla., Ga., Miss.)	Nov. 6 (*) Election Day
May 4 (**) R. I. Independence Day	Nov. 11 (**) Armistice Day
	Nov. 23 (**) Repudiation Day (Md.)
	Nov. 22 (*) Thanksgiving
	Dec. 7 (**) Delaware Day
	Dec. 21 (***) Forefather's Day
	Dec. 25 (*) Christmas Day

1945]

JANUARY, FIRST MONTH.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.		0 /		Days.		0 /		Days.		0 /		Days.		0 /	
		1	23	s.	00	7	22	21	13	21	27	19	20	18	25	18
	2	22	54		8	22	14	14	21	17	20	20	06	26	18	41
	3	22	49		9	22	05	15	21	06	21	19	52	27	18	25
	4	22	43		10	21	56	16	20	55	22	19	39	28	18	10
	5	22	36		11	21	47	17	20	43	23	19	25	29	17	54
	6	22	29		12	21	37	18	20	31	24	19	10	30	17	37

- ☾ Last Quarter, 6th day, 8 h. 47 m., morning, W.
- New Moon, 14th day, 1 h. 06 m., morning, E.
- ☽ First Quarter, 20th day, 7 h. 48 m., evening, W.
- Full moon, 28th day, 2 h 41 m., morning, W.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGE 12, FOR ALL POINTS OUTSIDE NEW ENGLAND.

Day of Year	Day of Month	Day of the Week	☺		Key	☻		Key	Length of Days.	Sun. Flow.	Full Sea, Boston.		D	Key	D	D's	Moon's Age
			Rises.	h. m.		Sets.	h. m.				Morn.	Even.					
1	1	M.	8	14	P	5	21	B	9 07 48	1 3/4	2	8 ^M 34	D	3 ^A 05	Leo	17	
2	2	Tu.	8	14	P	5	22	B	9 08 48	2 1/2	23	9 36	E	3 53	Leo	18	
3	3	W.	8	14	P	5	23	B	9 09 49	3 1/2	31/2	10 37	F	4 38	Vir	19	
4	4	Th.	8	14	P	5	24	B	9 10 49	4 1/4	4 1/4	11 ^M 36	H	5 22	Vir	20	
5	5	Fr.	8	14	P	5	25	B	9 11 50	5	5 1/4	—	—	6 03	Lib	21	
6	6	Sa.	8	14	P	5	26	B	9 12 50	5 3/4	6	12 ^A 33	I	6 44	Lib	22	
7	7	S.	8	14	O	5	27	B	9 13 50	6 1/2	7	1 32	J	7 26	Lib	23	
8	8	M.	8	14	O	5	28	B	9 14 51	7 1/2	7 3/4	2 32	K	8 08	Scor	24	
9	9	Tu.	8	14	O	5	29	C	9 15 51	8 1/4	8 3/4	3 33	L	8 53	Scor	25	
10	10	W.	8	14	O	5	30	C	9 17 52	9	9 1/2	4 35	N	9 41	Sgr	26	
11	11	Th.	8	13	O	5	31	C	9 18 52	9 3/4	10 1/4	5 39	O	10 32	Sgr	27	
12	12	Fr.	8	13	O	5	32	C	9 19 52	10 1/2	11 1/4	6 41	O	11 ^A 27	Cap	28	
13	13	Sa.	8	13	O	5	33	C	9 21 53	11 1/4	—	7 ^A 41	O	12 ^P 24	Cap	29	
14	14	S.	8	12	O	5	35	C	9 22 53	0	0	sets	—	1 22	Aqr	1	
15	15	M.	8	12	O	5	36	C	9 24 54	0 3/4	0 3/4	7 ^P 23	D	2 20	Aqr	2	
16	16	Tu.	8	11	O	5	37	C	9 25 54	1 1/2	1 3/4	8 36	E	3 16	Psc	3	
17	17	W.	8	11	O	5	38	C	9 27 54	2 1/4	2 1/2	9 50	G	4 10	Psc	4	
18	18	Th.	8	10	O	5	39	C	9 29 55	3	3 1/4	11 ^P 02	H	5 02	Psc	5	
19	19	Fr.	8	10	O	5	40	C	9 31 55	4	4 1/4	—	—	5 53	Ari	6	
20	20	Sa.	8	09	O	5	42	C	9 32 55	4 3/4	5 1/4	12 ^A 14	J	6 43	Ari	7	
21	21	S.	8	08	O	5	43	C	9 34 55	5 3/4	6 1/4	1 26	K	7 34	Tau	8	
22	22	M.	8	08	O	5	44	C	9 36 56	6 3/4	7 1/4	2 37	M	8.26	Tau	9	
23	23	Tu.	8	07	N	5	45	D	9 38 56	7 3/4	8 1/2	3 46	N	9 19	G'm	10	
24	24	W.	8	06	N	5	47	D	9 40 56	8 3/4	9 1/2	4 53	O	10 14	G'm	11	
25	25	Th.	8	06	N	5	48	D	9 42 56	9 3/4	10 1/4	5 56	P	11 ^P 09	Cnc	12	
26	26	Fr.	8	05	N	5	49	D	9 44 57	10 1/2	11 1/4	6 53	P	—	—	—	
27	27	Sa.	8	04	N	5	50	D	9 46 57	11 1/2	—	7 ^P 43	P	12 ^A 03	Cnc	13	
28	28	S.	8	03	N	5	52	D	9 49 57	0	0 1/4	rises	—	12 55	Leo	14	
29	29	M.	8	02	N	5	53	D	9 51 57	0 3/4	1	7 ^P 22	E	1 45	Leo	15	
30	30	Tu.	8	01	N	5	54	D	9 53 57	1 1/2	1 3/4	8 23	F	2 32	Vir	16	
31	31	W.	8	00	N	5	55	D	9 55 58	2 1/4	2 1/2	9 ^P 23	G	3 ^A 16	Vir	17	



Deny this look of frozen death
On field and water, bush and tree!
It is no stronger than a breath
Up from the south . . . and you shall see,
Most certainly, and that, ere long,
How brooks are water, singing by,
And the lean bough a shaft of song
From leafage to the flowing sky.

D. M.	D. W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	M.	Circumcision. \oplus in Peri. Tides { 9.0 Cold	<p>This month the farmer, like a good business man, makes his plan for the new year. But as Davy Crockett used to say, "Be sure you're right—then go ahead." Follow the rule of commonsense in your farm plans—and stick to it. Speaking of commonsense, let Ma help you with your figuring. It takes the grindstone to sharpen the axe. If you can't budget all the farm and household expenses with something left over for Uncle Sam and the mortgage, better get out the pencil again. Hope is a good breakfast but a poor supper, and you want things straight sailing when the boys come home.</p> <p>Don't spend all your time figuring. January's full of "miserics" and "aches" if you dont keep active. A little essence of the axe handle in the woodlot will do a heap more good than the doe's prescription (if he has time to give you one). When it's mild enough, start trimming the apple orchard. Keep your feeding station and window boxes filled for the birds. Don't neglect your tools, your neighbors, or your ehores. And for your health's sake reach now and then into the apple barrel . . . one's own "Mac's" and "Baldwins" always taste better.</p> <p>When the snow piles on the threshold and the North wind shouts in the ehimney, there are no better hours to know yourself and your loved ones. As you look into your fire, may you see a Happy New Year ahead.</p>
2	Tu.	Japs entered Manila 1942 \otimes Stat. in R.A. Tides { 10.1 and	
3	W.	Tides { 8.6 raw.	
4	Th.	USS. Turner expl. 1944 $\delta \psi \zeta$. Tides { 8.5	
5	Fr.	Twelfth Take down Night Xmas greens $\delta \psi \zeta \cdot \zeta$ Apo. { 8.4	
6	Sa.	Epiph. ζ on Eq. Tides { 8.9 Look	
7	C	1st S. af. Epi. Tides { 8.4 for	
8	M.	Plow ψ Stat. in R.A. Tides { 8.5 snow.	
9	Tu.	Monday 1st shot Civil War 1861 Tides { 8.8	
10	W.	Ethan Allen b. 1737 Tides { 9.1 Clearing.	
11	Th.	F. Scott Key b. 1844 Tides { 9.5	
12	Fr.	Chimney fires due now $\delta \psi \zeta \cdot \zeta$ Gr. El. W. { 8.4 8.7	
13	Sa.	Hilarymas. Moon Tides low. { 10.3 Changeable.	
14	C	2d S. a. Ep. St. Hilary \odot Ecl. { 9.0 Ann. { 10.7	
15	M.	Tides { 9.8 Could	
16	Tu.	26th Div. ord. back 1941 Tides { 9.6 11.0 be	
17	W.	Ben Franklin b. 1706 $\delta \psi \zeta \cdot \zeta$ in Peri. { 9.8 10.8	
18	Th.	City of Columbus wrecked 1884 Tides { 9.9 10.5 mild	
19	Fr.	Holiday in South ζ on Eq. { 9.9 10.1 shortly.	
20	Sa.	Inauguration Day. Tides { 9.9 9.7	
21	C	3rd S. a. Epi. Tides { 9.9 9.2	
22	M.	St. Vincent. Tides { 8.8 Snow storm	
23	Tu.	Br. 8th Army took Tripoli '43 ψ in ψ . $\delta \psi \zeta$. { 9.9 8.7	
24	W.	U.S.S. John Hancock launched 1944 { 10.0 8.5 is to be	
25	Th.	Conv. of St. Paul. $\delta \psi \zeta \cdot \zeta$ in ψ . { 10.1 8.7	
26	Fr.	G.I. Joe abroad '42 $\delta \psi \zeta \cdot \zeta$ Runs high. Tides { 10.2 8.8	
27	Sa.	Audubon d. 1851 Tides { 10.8 expected	
28	C	Septuagesima S. { 8.9 10.2 by	
29	M.	W. Allen White d. 1944 A. Ford swam 100-50.1 sec. { 8.9 10.1	
30	Tu.	Chas. I beheaded 1649 Tides { 9.0 9.9 nov.	
31	W.	Great Snow 1898 $\delta \psi \zeta$. Tides { 8.9 9.5	

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FEBRUARY, SECOND MONTH.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days		0 /		Days		0 /		Days		0 /	
	1	17	04	7	15 16	13	13 19	19	11 14	25	9 02	
2	16	46	8	14 57	14	12 58	20	10 52	26	8 40		
3	16	29	9	14 38	15	12 38	21	10 31	27	8 18		
4	16	11	10	14 18	16	12 17	22	10 09	28	7 55		
5	15	53	11	13 59	17	11 56	23	9 47				
6	15	34	12	13 39	18	11 35	24	9 25				

- ☾ Last Quarter, 5th day, 5 h. 55 m., morning, E.
- New Moon, 12th day, 1 h. 33 m., evening, W.
- ☽ First Quarter, 19th day, 4 h. 38 m., morning, W.
- ☾ Full Moon, 26th day, 8 h. 07 m., evening, E.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGE 12, FOR ALL POINTS OUTSIDE NEW ENGLAND.

Day of Year	Day of Month	Day of the Week	☉ Rises. h. m.	☉ Key	☉ Sets. h. m.	☉ Key	Length of Days. h. m.	Sun Slow. m.	Full Sea. Boston. Morn. h. Even. h.	☽ Rises. h. m.	☽ Key	☽ Souths. h. m.	☽'s Place	☽'s Age
32	1	Th.	7 59	N	5 57	D	9 57	58	2 ³ / ₄	3	10 ^P _M 22	H	3 ^A _M 58	Vir 18
33	2	Fr.	7 58	N	5 58	D	10 00	58	3 ¹ / ₂	3 ⁴ / ₄	11 ^P _M 20	I	4 40	Lib 19
34	3	Sa.	7 57	M	5 59	E	10 02	58	4 ¹ / ₄	4 ¹ / ₂	—	—	5 21	Lib 20
35	4	S.	7 56	M	6 01	E	10 04	58	5	5 ¹ / ₄	12 ^A _M 19	K	6 02	Sco 21
36	5	M.	7 55	M	6 02	E	10 07	58	5 ³ / ₄	6 ¹ / ₄	1 19	L	6 45	Sco 22
37	6	Tu.	7 54	M	6 03	E	10 09	58	6 ¹ / ₂	7	2 20	M	7 31	Sco 23
38	7	W.	7 53	M	6 04	E	10 12	58	7 ¹ / ₂	8	3 21	N	8 19	Sgr 24
39	8	Th.	7 51	M	6 06	E	10 14	58	8 ¹ / ₄	9	4 24	O	9 11	Sgr 25
40	9	Fr.	7 50	M	6 07	E	10 17	58	9 ¹ / ₄	9 ³ / ₄	5 24	O	10 07	Cap 26
41	10	Sa.	7 49	M	6 08	E	10 19	58	10	10 ³ / ₄	6 20	O	11 ^A _M 04	Cap 27
42	11	S.	7 48	M	6 09	E	10 22	58	11	11 ¹ / ₂	7 ^A _M 12	O	12 ^P _M 03	Aqr 28
43	12	M.	7 47	L	6 11	E	10 24	58	11 ³ / ₄	—	sets	—	1 01	Aqr 29
44	13	Tu.	7 45	L	6 12	F	10 27	58	0 ¹ / ₄	0 ¹ / ₂	7 ^P _M 29	F	1 58	Psc 1
45	14	W.	7 44	L	6 13	F	10 29	58	1	1 ¹ / ₄	8 45	H	2 53	Psc 2
46	15	Th.	7 43	L	6 15	F	10 32	58	1 ³ / ₄	2 ¹ / ₄	10 00	I	3 46	Ari 3
47	16	Fr.	7 41	L	6 16	F	10 35	58	2 ³ / ₄	3	11 ^P _M 14	K	4 38	Ari 4
48	17	Sa.	7 40	L	6 17	F	10 37	58	3 ¹ / ₂	4	—	—	5 30	Tau 5
49	18	S.	7 38	L	6 18	F	10 40	58	4 ¹ / ₂	5	12 ^A _M 27	L	6 22	Tau 6
50	19	M.	7 37	L	6 19	F	10 42	58	5 ¹ / ₄	6	1 38	N	7 16	G'm 7
51	20	Tu.	7 36	L	6 21	F	10 45	58	6 ¹ / ₂	7	2 47	O	8 10	G'm 8
52	21	W.	7 34	L	6 22	F	10 48	58	7 ¹ / ₂	8	3 51	P	9 04	Cnc 9
53	22	Th.	7 33	K	6 23	G	10 50	58	8 ¹ / ₂	9 ¹ / ₄	4 49	P	9 58	Cnc 10
54	23	Fr.	7 31	K	6 24	G	10 53	57	9 ¹ / ₂	10 ¹ / ₄	5 40	P	10 50	Leo 11
55	24	Sa.	7 30	K	6 26	G	10 56	57	10 ¹ / ₂	11	6 24	O	11 ^P _M 40	Leo 12
56	25	S.	7 28	K	6 27	G	10 59	57	11 ¹ / ₄	11 ³ / ₄	7 ^A _M 01	N	—	—
57	26	M.	7 27	K	6 28	G	11 01	57	—	0	rises	—	12 ^A _M 27	Leo 13
58	27	Tu.	7 25	K	6 29	G	11 04	57	0 ¹ / ₂	0 ¹ / ₂	7 ^P _M 13	G	1 12	Vir 14
59	28	W.	7 24	K	6 30	G	11 07	57	1	1 ¹ / ₄	8 ^P _M 13	H	1 ^A _M 55	Vir 16

FEBRUARY hath 28 days.

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Listen . . . above the lipless snow,
 There's the first small, returning bird,
 Made bold by something he must know,
 To say the quick and prescient word
 That our too timed hearts are slow
 To say—but happier since they heard.

D. M.	D. W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	Th.	Am. News Co. founded 1864 $\delta \Psi C.$ {8.8 [2nd Eq. {9.2	The water's frozen stiff again, and you're lugging from the old well. As near as you can figure it, there's only about a month's feed left in the loft, with baled hay selling at forty dollars a ton. The last snow's busted in the hen house roof. Ma's feeling "peckish" and the price of grain is higher than Gilroy's kite. There you are, knee deep in chores and taxes and government regulations. Take it all in all, the world is just another dish of cold beans.
2	Fr.	Candlemas. δ in Aph. δ Gr. δ El. E. δ in C. Apo. {8.7	
3	Sa.	Span. Ing. abol. 1813 Marshall's inv. '44 Tides {8.5 Cold {8.4	You don't know it, but somehow things are going to come around—sure as Town Meeting. They start with the mild spell and a sort of hankering you have to let things slide anyhow. You cut Ma an armful of forsythia branches to "force" in the parlor window. Maybe you add a few cuttings from the old apple on the sunny side of the lane. Ma perks up—and you go to Grange meeting. Your neighbors lend a hand with the hen house roof. Then one day sap's running—and you're twice as busy as ever—but the smell of the hot, bubbling syrup makes you young again. The boys come down to help after school, and pour the syrup on the snow, and make a real spree of eating it. just as you did when you were a kid.
4	C	Serag. S. Tides {8.5 continues. {8.0	
5	M.	Boston Fire 1898 Tides {8.5 {7.8	Before you know it you've slid right around the corner into March, and Ma's seen the first robin.
6	Tu.	18 below 1855 Tides {8.5 {7.6 Easterly	
7	W.	Shoe rationing began 1943 Tides {8.7 storm	He who neither thinks for himself Nor follows another's advice brews in himself the juice for his own stewing.
8	Th.	Boy Scouts fd. 1910 Tides {9.0 now. {8.0	
9	Fr.	Normandie -14.3° N.Y.C. runs {9.4 fire 1942 1934 low. {8.4	
10	Sa.	St. Paul shipwrecked at Malta $\delta \delta C.$ {10.0 Spell {8.9	
11	C	Quinqua. (Shrove) S. $\delta \delta C.$ {9.4 of {10.5	
12	M.	Lincoln's Birthday. Tides {10.9 milder weather	
13	Tu.	Shrove Mardi Gras Ala., Fla., La. Holiday {9.8	
14	W.	Ash Wed. St. Valentine δ in Perl. {11.3	
15	Th.	"Auld Deer-worst in year" $\delta \delta C.$ δ Stat. in R. A. {10.6 {11.2	
16	Fr.	Truk 1944 {10.7 {15th Eq. on followed by {10.8	
17	Sa.	Bath, Me. inc. 1781 Tides {10.6 unsettled days. {10.2	
18	C	1st S. in L. Quadrag. Tides {10.8 {9.6	
19	M.	R. Barbour -C. Harding d. 1944 $\delta \delta C.$ {10.1 {9.0	
20	Tu.	Volcano Paracutin born 1944 {9.8 Indications of {8.5	
21	W.	Kasserine Pass '43 $\delta h C.$ {9.6 [22nd runs high {8.3	
22	Th.	Washington's Birthday δ (Gr. Hel. Lat. S. {9.5 {8.3 a real	
23	Fr.	Gale of 1723 Tides {9.6 storm in the {8.4	
24	Sa.	St. Matthias Mass. Hort. Soc. fd. 1829 {9.7 {8.6 offing.	
25	C	2nd S. in L. Tides {9.8 {8.8	
26	M.	Fast of Esther. Tides {9.8 Warms up. {9.0	
27	Tu.	Purim. $\square \delta \odot.$ {9.0 [6 $\delta \odot$ Sup. {9.1	
28	W.	U.S.S. Jacob Jones torpedoed '42 $\delta \delta C.$ δ Perl. {9.6	

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MARCH, THIRD MONTH.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.			Days.			Days.			Days.			Days.		
	0	/		0	/		0	/		0	/		0	/	
1	7s.	32		7	5	14	13	2	53	19	0	30	25	1	52
2	7	09		8	4	50	14	2	29	20	0s.	07	26	2	15
3	6	46		9	4	27	15	2	05	21	0n.	17	27	2	39
4	6	23		10	4	03	16	1	42	22	0	41	28	3	02
5	6	00		11	3	40	17	1	18	23	1	04	29	3	25
6	5	37		12	3	16	18	0	54	24	1	28	30	3	49

☾ Last Quarter, 7th day, 12 h. 30 m., morning, E.

● New Moon, 13th day, 11 h. 51 m., evening, W.

☽ First Quarter, 20th day, 3 h. 11 m., evening, E.

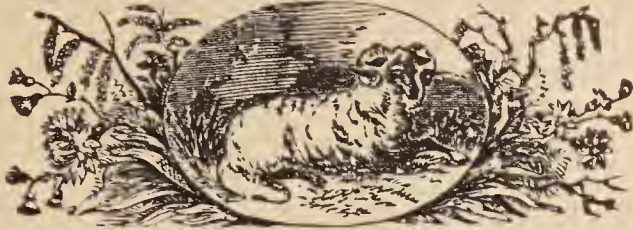
○ Full Moon, 28th day, 1 h. 44 m., evening, E.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGE 12, FOR ALL POINTS OUTSIDE NEW ENGLAND.

Day of Year	Day of Month	Day of the Week	☉		☽		Length of Days.	Sun Slow.	Full Sea, Boston.		☽	☽	☽'s	Moon's Age	
			Rises. h. m.	Key	Sets. h. m.	Key			Morn. h.	Even. h.					Rises. h. m.
60	1	Th.	7 22	K	6 32	G	11 10	56	1 $\frac{3}{4}$	2	9 $\frac{11}{11}$	I	2 $\frac{37}{3}$	Lib	17
61	2	Fr.	7 20	K	6 33	G	11 12	56	2 $\frac{1}{2}$	10	10	J	3 18	Lib	18
62	3	Sa.	7 19	K	6 34	G	11 15	56	3	3 $\frac{1}{4}$	11 $\frac{09}{11}$	K	3 59	Lib	19
63	4	S.	7 17	J	6 35	H	11 18	56	3 $\frac{1}{2}$	4	—	—	4 41	Sco	20
64	5	M.	7 16	J	6 36	H	11 20	56	4 $\frac{1}{4}$	4 $\frac{3}{4}$	12 $\frac{09}{11}$	M	5 25	Sco	21
65	6	Tu.	7 14	J	6 37	H	11 23	55	5	5 $\frac{1}{2}$	1 09	N	6 11	Sgr	22
66	7	W.	7 12	J	6 38	H	11 26	55	5 $\frac{3}{4}$	6 $\frac{1}{2}$	2 10	O	7 00	Sgr	23
67	8	Th.	7 11	J	6 40	H	11 29	55	6 $\frac{3}{4}$	7 $\frac{1}{2}$	3 10	O	7 53	Cap	24
68	9	Fr.	7 09	J	6 41	H	11 32	55	7 $\frac{3}{4}$	8 $\frac{1}{2}$	4 07	P	8 48	Cap	25
69	10	Sa.	7 08	J	6 42	H	11 34	54	8 $\frac{3}{4}$	9 $\frac{1}{4}$	4 59	O	9 45	Aqr	26
70	11	S.	7 06	J	6 43	H	11 37	54	9 $\frac{3}{4}$	10 $\frac{1}{4}$	5 46	N	10 43	Aqr	27
71	12	M.	7 04	J	6 44	H	11 40	54	10 $\frac{1}{2}$	11	6 $\frac{28}{11}$	M	11 $\frac{40}{11}$	Psc	28
72	13	Tu.	7 03	J	6 45	H	11 43	54	11 $\frac{1}{2}$	11 $\frac{3}{4}$	sets	—	12 $\frac{36}{11}$	Psc	29
73	14	W.	7 01	I	6 46	I	11 46	53	—	0 $\frac{1}{4}$	7 $\frac{35}{11}$	I	1 31	Ari	1
74	15	Th.	6 59	I	6 48	I	11 48	53	0 $\frac{3}{4}$	1	8 53	J	2 25	Ari	2
75	16	Fr.	6 58	I	6 49	I	11 51	53	1 $\frac{1}{2}$	2	10 09	L	3 19	Tau	3
76	17	Sa.	6 56	I	6 50	I	11 54	52	2 $\frac{1}{4}$	2 $\frac{3}{4}$	11 $\frac{25}{11}$	M	4 14	Tau	4
77	18	S.	6 54	I	6 51	I	11 57	52	3 $\frac{1}{4}$	3 $\frac{3}{4}$	—	—	5 09	G m	5
78	19	M.	6 52	I	6 52	I	11 59	52	4	4 $\frac{1}{2}$	12 $\frac{36}{11}$	O	6 04	G'm	6
79	20	Tu.	6 51	I	6 53	I	12 02	52	5	5 $\frac{1}{2}$	1 44	P	7 00	Cnc	7
80	21	W.	6 49	I	6 54	I	12 05	51	6	6 $\frac{3}{4}$	2 45	P	7 54	Cnc	8
81	22	Th.	6 47	K	6 55	I	12 08	51	7	7 $\frac{3}{4}$	3 39	P	8 47	Cnc	9
82	23	Fr.	6 46	K	6 56	I	12 11	51	8 $\frac{1}{4}$	9	4 25	O	9 37	Leo	10
83	24	Sa.	6 44	K	6 57	I	12 13	50	9 $\frac{1}{4}$	9 $\frac{3}{4}$	5 04	O	10 25	Leo	11
84	25	S.	6 42	H	6 58	J	12 16	50	10	10 $\frac{1}{2}$	5 37	N	11 10	Vir	12
85	26	M.	6 41	H	7 00	J	12 19	50	10 $\frac{3}{4}$	11 $\frac{1}{4}$	6 05	L	11 $\frac{53}{11}$	Vir	13
86	27	Tu.	6 39	H	7 01	J	12 22	49	11 $\frac{1}{2}$	—	6 $\frac{32}{11}$	K	—	—	—
87	28	W.	6 37	H	7 02	J	12 24	49	0	0 $\frac{1}{4}$	rises	—	12 $\frac{35}{11}$	Lib	14
88	29	Th.	6 36	H	7 03	J	12 27	49	0 $\frac{1}{2}$	0 $\frac{3}{4}$	8 $\frac{03}{11}$	J	1 16	Lib	15
89	30	Fr.	6 34	H	7 04	J	12 30	49	1	1 $\frac{1}{2}$	9 02	K	1 57	Lib	16
90	31	Sa.	6 32	H	7 05	J	12 33	48	1 $\frac{3}{4}$	2	10 $\frac{01}{11}$	L	2 $\frac{39}{11}$	Sco	17

MARCH hath 31 days.

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This lengthening of light
 Across the longer day
 Might not, and yet it might
 Be meant to show the way
 To flowers that must make
 Dark journeys, without knowing,
 Always, what turn to take
 That leads where they are going.

D. M.	D. W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	Th.	St. David. C. J. Swan d. 10 yrs. ago $\delta \Psi \text{C} \cdot \text{C}$ on $\{ \begin{smallmatrix} 9.1 \\ 9.4 \end{smallmatrix} \}$	The fight with the insects begins this month. Go through your orchards with stout pruning shears and cut off the small limbs and twigs girdled with bracelets of caterpillar eggs. Then burn them pronto.
2	Fr.	Holiday in Texas C Apo. $\{ \begin{smallmatrix} 9.1 \\ 9.1 \end{smallmatrix} \}$ [1st Hol. Neb. Chill	Mend your fences and stone walls and see that your gates are sturdy. Have a thought now to the spring plowing, and check over all your farm machinery. Don't spare the oil and grease. Are the blades for your mowing machine sharp? Have you any extra points for your plow? They don't grow on trees these days.
3	Sa.	Ghandi hunger strike fin. 1943 Tides $\{ \begin{smallmatrix} 9.0 \\ 8.8 \end{smallmatrix} \}$ winds	As the snow leaves the barn yard, there will be a hundred things to pick up, from Junior's other ski to the top of the gas tank.
4	C	3rd S. in Lent. Holiday in Pa. $\{ \begin{smallmatrix} 8.9 \\ 8.4 \end{smallmatrix} \}$ with	Not too late to breed your pigs the early part of this month.
5	M.	Bismarck The Ides h Stat. in R. A. $\{ \begin{smallmatrix} 8.7 \\ 8.0 \end{smallmatrix} \}$ snow	Put a good coat of oil on the back porch to preserve it from the hot suns and showers of summer. Make use of your rainy days to mend the last of the old apple boxes and nail up the new shooks. Fertilize your orchard.
6	Tu.	Icebergs approaching Tides $\{ \begin{smallmatrix} 8.6 \\ 7.8 \end{smallmatrix} \}$ flurries.	Have you your spray materials on hand for the apples and peaches? Now is the time to combat oyster shell scale with a dormant spray of oil emulsion or lime sulphur. Be sure your spray tank is thoroughly cleaned out before you use it.
7	W.	North Atlantic Tides $\{ \begin{smallmatrix} 8.6 \\ 7.6 \end{smallmatrix} \}$	Make the best of the mud season. It is your last rest before winter. But be sure to take your boots off out on the porch. Peace must be bought at any price in the kitchen.
8	Th.	Tides $\{ \begin{smallmatrix} 8.7 \\ 7.7 \end{smallmatrix} \}$ Stormy.	
9	Fr.	Maple sap running C runs low. Tides $\{ \begin{smallmatrix} 9.0 \\ 8.1 \end{smallmatrix} \}$	
10	Sa.	d. Irvin S. Cobb $\{ \begin{smallmatrix} 9.4 \\ 8.5 \end{smallmatrix} \}$ Gr. Br.	
11	C	4th S. in L. $\delta \delta \text{C} \cdot \text{C}$ $\{ \begin{smallmatrix} 10.0 \\ 9.3 \end{smallmatrix} \}$ Fine	
12	M.	St. Gregory. Blizzard of 1888 Tides $\{ \begin{smallmatrix} 10.8 \\ 10.0 \end{smallmatrix} \}$	
13	Tu.	$\delta \Psi \odot \cdot \Psi$ in \odot Tides $\{ \begin{smallmatrix} 11.1 \\ 10.6 \end{smallmatrix} \}$ bright	
14	W.	Hot season Calcutta $\delta \Psi \text{C} \cdot \text{C}$ Peri. $\{ \begin{smallmatrix} 11.4 \end{smallmatrix} \}$ days.	
15	Th.	Income taxes due Holiday Tenn. C on Eq. Tides $\{ \begin{smallmatrix} 11.1 \\ 11.5 \end{smallmatrix} \}$	
16	Fr.	$\delta \Psi \text{C}$ Tides $\{ \begin{smallmatrix} 11.3 \\ 11.8 \end{smallmatrix} \}$ Storm	
17	Sa.	St. Patrick. Monomoy disaster 1902 $\{ \begin{smallmatrix} 11.8 \\ 10.8 \end{smallmatrix} \}$ threatens.	
18	C	Passion S. Ψ in Dodd mile Peri. $\{ \begin{smallmatrix} 11.0 \\ 10.1 \end{smallmatrix} \}$	
19	M.	St Joseph's Swallows arr. Day Capistrano, Cal. $\delta \odot \text{C} \cdot \text{C}$ $\{ \begin{smallmatrix} 10.6 \\ 9.4 \end{smallmatrix} \}$	
20	Tu.	Spring begins. \odot en- Ψ $\delta \text{C} \cdot \text{C}$ Tides $\{ \begin{smallmatrix} 10.1 \\ 8.8 \end{smallmatrix} \}$	
21	W.	St. Benedict. C runs high. Tides $\{ \begin{smallmatrix} 9.6 \\ 8.8 \end{smallmatrix} \}$ Clear	
22	Th.	Bluebirds & Robins Ψ Gr. Hel. Lat. N. Tides $\{ \begin{smallmatrix} 9.2 \\ 8.1 \end{smallmatrix} \}$ warm	
23	Fr.	may be around Tides $\{ \begin{smallmatrix} 9.1 \\ 8.2 \end{smallmatrix} \}$ Spring	
24	Sa.	Ψ Stat. in R. A. Tides $\{ \begin{smallmatrix} 9.1 \\ 8.4 \end{smallmatrix} \}$ weather.	
25	C	Palm S. Ann. or Lady Day. $\square \text{h} \odot$.	
26	M.	Ψ Gr. EL. Tides $\{ \begin{smallmatrix} 9.3 \\ 9.0 \end{smallmatrix} \}$ [25th $\delta \Psi \odot$. $\{ \begin{smallmatrix} 9.2 \\ 8.7 \end{smallmatrix} \}$	
27	Tu.	St. Nazaire raid 1942 $\delta \Psi \text{C} \cdot \text{C}$ Tides $\{ \begin{smallmatrix} 9.4 \end{smallmatrix} \}$ Wet	
28	W.	$\delta \Psi \text{C} \cdot \text{C}$ Gr. Hel. Lat. N. C on Eq. $\{ \begin{smallmatrix} 9.2 \\ 9.4 \end{smallmatrix} \}$ and	
29	Th.	Maundy Th. Passover C Apo. $\{ \begin{smallmatrix} 9.8 \\ 9.4 \end{smallmatrix} \}$ unpleasant.	
30	Fr.	Good Friday. Tides $\{ \begin{smallmatrix} 9.4 \\ 9.2 \end{smallmatrix} \}$	
31	Sa.	Smith swam 200—1:55:2 Tides $\{ \begin{smallmatrix} 9.4 \\ 9.0 \end{smallmatrix} \}$ Windy.	

1945]

APRIL, FOURTH MONTH.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.		0 /		Days.		0 /		Days.		0 /		Days.		0 /	
	1	4	N.	35	7	6	52	13	9	05	19	11	13	25	13	14
2	4		58	8	7	15	14	9	27	20	11	33	26	13	33	
3	5		21	9	7	37	15	9	48	21	11	54	27	13	52	
4	5		44	10	7	59	16	10	10	22	12	14	28	14	11	
5	6		07	11	8	21	17	10	31	23	12	34	29	14	30	
6	6		30	12	8	43	18	10	52	24	12	54	30	14	48	

- ☾ Last Quarter, 5th day, 3 h. 18 m., evening, W.
 ● New Moon, 12th day, 8 h. 29 m., morning, E.
 ☽ First Quarter, 19th day, 3 h. 46 m., morning, W.
 ○ Full Moon, 27th day, 6 h. 33 m., morning, W.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGE 12, FOR ALL POINTS OUTSIDE NEW ENGLAND.

Day of Year	Day of Month	Day of the Week	☉		☽		Length of Days.	Sun Slow.	Full Sea, Boston.		☽		☽		Moon's Age
			Rises.	Key	Sets.	Key			Morn	Even	Rises.	Key	Souths.	Place	
91	1	S.	6 31	H	7 06	J	12 35	48	2 $\frac{1}{4}$	2 $\frac{3}{4}$	11 ^P 02	M	3 ^A _M 22	Scor	18
92	2	M.	6 29	H	7 07	J	12 38	48	3	3 $\frac{1}{2}$	—	—	4 07	Sgr	19
93	3	Tu.	6 27	H	7 08	J	12 41	47	3 $\frac{1}{2}$	4 $\frac{1}{4}$	12 ^A 02	O	4 55	Sgr	20
94	4	W.	6 26	G	7 09	K	12 44	47	4 $\frac{1}{4}$	5	1 02	O	5 45	Sgr	21
95	5	Th.	6 24	G	7 10	K	12 46	47	5 $\frac{1}{4}$	6	1 58	P	6 38	Cap	22
96	6	Fr.	6 22	G	7 11	K	12 49	46	6 $\frac{1}{4}$	7	2 51	O	7 33	Cap	23
97	7	Sa.	6 21	G	7 12	K	12 52	46	7 $\frac{1}{4}$	8	3 39	O	8 28	Aqr	24
98	8	S.	6 19	G	7 13	K	12 54	46	8 $\frac{1}{4}$	8 $\frac{3}{4}$	4 21	N	9 24	Aqr	25
99	9	M.	6 17	G	7 14	K	12 57	46	9 $\frac{1}{4}$	9 $\frac{1}{4}$	4 58	L	10 19	Psc	26
100	10	Tu.	6 16	G	7 16	K	13 00	45	10 $\frac{1}{4}$	10 $\frac{1}{2}$	5 32	K	11 ^A 13	Psc	27
101	11	W.	6 14	G	7 17	K	13 02	45	11	11 $\frac{1}{2}$	6 ^A 04	I	12 ^P 08	Ari	29
102	12	Th.	6 13	G	7 18	K	13 05	45	11 $\frac{3}{4}$	—	sets	—	1 02	Ari	0
103	13	Fr.	6 11	G	7 19	K	13 08	45	0 $\frac{1}{4}$	0 $\frac{3}{4}$	8 ^P 59	L	1 58	Tau	1
104	14	Sa.	6 10	F	7 20	L	13 10	44	1	1 $\frac{1}{2}$	10 16	N	2 54	Tau	2
105	15	S.	6 08	F	7 21	L	13 13	44	2	2 $\frac{1}{2}$	11 ^P 29	O	3 52	G'm	3
106	16	M.	6 06	F	7 22	L	13 16	44	2 $\frac{3}{4}$	3 $\frac{1}{4}$	—	—	4 50	G'm	4
107	17	Tu.	6 05	F	7 23	L	13 18	44	3 $\frac{3}{4}$	4 $\frac{1}{4}$	12 ^A 36	P	5 47	Cnc	5
108	18	W.	6 03	F	7 24	L	13 21	43	4 $\frac{1}{2}$	5 $\frac{1}{4}$	1 34	P	6 42	Cnc	6
109	19	Th.	6 02	F	7 25	L	13 23	43	5 $\frac{1}{2}$	6 $\frac{1}{4}$	2 24	P	7 34	Leo	7
110	20	Fr.	6 00	F	7 26	L	13 26	43	6 $\frac{3}{4}$	7 $\frac{1}{2}$	3 05	O	8 23	Leo	8
111	21	Sa.	5 59	F	7 27	L	13 28	43	7 $\frac{3}{4}$	8 $\frac{1}{2}$	3 40	N	9 09	Vir	10
112	22	S.	5 57	F	7 28	L	13 31	42	8 $\frac{3}{4}$	9 $\frac{1}{4}$	4 10	M	9 53	Vir	11
113	23	M.	5 56	E	7 29	M	13 33	42	9 $\frac{1}{2}$	10	4 37	K	10 34	Vir	12
114	24	Tu.	5 55	E	7 30	M	13 36	42	10 $\frac{1}{4}$	10 $\frac{3}{4}$	5 01	J	11 15	Lib	13
115	25	W.	5 53	E	7 31	M	13 37	42	11	11 $\frac{1}{4}$	5 24	I	11 ^P 56	Lib	14
116	26	Th.	5 52	E	7 33	M	13 41	42	11 $\frac{3}{4}$	—	5 ^A 48	H	—	—	—
117	27	Fr.	5 50	E	7 34	M	13 43	42	0	0 $\frac{1}{4}$	rises	—	12 ^A 38	Scor	15
118	28	Sa.	5 49	E	7 35	M	13 46	41	0 $\frac{1}{2}$	1	8 ^P 56	M	1 20	Scor	16
119	29	S.	5 48	E	7 36	M	13 48	41	1 $\frac{1}{4}$	1 $\frac{1}{2}$	9 56	N	2 05	Scor	17
120	30	M.	5 46	E	7 37	M	13 50	41	1 $\frac{3}{4}$	2 $\frac{1}{4}$	10 ^P 57	O	2 ^A 52	Sgr	18

APRIL hath 30 days.

[1945



These delicate and brave and strong
 Quick shapes and colors from the earth,
 Are all delight, but not for long,
 And all of that ambiguous worth
 That leaves us staring, when they go,
 Not sure if they were here or no.

D. M.	D. W.	Aspects, Holidays, Heights of High Water, Weather, Etc.	Farmer's Calendar.
1	C	Easter S. All Fools Day. { ^{9.8} _{8.7}	High time to get the last of the winter's manure out onto the fields. Your spreader is your best friend now. Guard it accordingly. Young Bill from the High School can ruin it in one five minute whirl if he is not cautioned to go slowly. One eye of the master sees more than four eyes of his helpers. Plow as soon as possible, but following the contours of the land rather than straight up and down hill, no matter how gentle the slope. Each year tons of good top soil are washed away due to plan-less plowing. Your furrows should be water catchers, water holders, not water courses. A dry summer will prove the wisdom of this.
2	M.	Easter Arbor Tides { ^{9.2} _{8.4}	
3	Tu.	Stat. in R.A. Tides { ^{9.0} _{8.1}	
4	W.	St. Ambrose. Tides { ^{8.9} _{7.9}	
5	Th.	Elihu Yale runs Tides { ^{8.8} _{7.8}	
6	Fr.	Army Herons back { ^{8.9} _{8.0}	
7	Sa.	P. T. Barnum Tides { ^{9.1} _{8.4}	
8	C	Low S. 1st of E. { ^{9.5} _{8.1}	
9	M.	Mar. Snowed 6 3 C. Tides { ^{10.0} _{9.8}	
10	Tu.	Egypt 9 in. '17 Tides { ^{10.6} _{10.6}	
11	W.	Arkansas tornado '44 on Tides { ^{11.0} _{11.2}	
12	Th.	A. W. Ellis 6 4 C. Tides { ^{11.3} _{11.3}	
13	Fr.	Jefferson 6 4 C. Inf. Tides { ^{11.7} _{11.3}	
14	Sa.	Pan-American Gr. Hel. Tides { ^{11.8} _{11.0}	
15	C	2nd S. of E. 6 4 C. Inf. { ^{11.7} _{10.5}	This is a good month to plant out your young orchard trees. Be sure the holes are dug generously deep and wide, pot-bellied, for the roots need plenty of space and loosened earth around them. If you have time, you may beautify your farm house and grounds with wild shrubs such as laurel, dogwoods, wild azaleas, or some of the hardy lilac from the old cellar hole. If it is dry, watch out for fires. Beware of the old patches of dried grass around the barns and outbuildings. Clean, disinfect, and white-wash the hen house inside. "Paint" the roosts with a strong nicotine solution. Don't neglect the cow barn. Pick up all old cans and barrels left outside, for if there is water in these, they are breeding grounds for mosquitoes.
16	M.	Gale of H. H. Conland 1851 d. 1944 { ^{11.8} _{9.9}	
17	Tu.	Britain "froze" 1944 6 4 C. Tides { ^{10.7} _{9.2}	
18	W.	Tornado in S. W. 1880 Tides { ^{10.0} _{8.7}	
19	Th.	Patriots' Day, Thomas Hitchcock killed 1944 { ^{9.4} _{8.3}	
20	Fr.	U.S.S. Lansdales. 1944 Tides { ^{9.0} _{8.2}	
21	Sa.	J. A. Muehling d. 1944 Tides { ^{8.8} _{8.3}	
22	C	3rd S. of E. Wm. Cardinal O'Connell d. 1944 { ^{8.7} _{8.5}	
23	M.	St. George. 6 4 C. Tides { ^{8.8} _{8.8}	
24	Tu.	Arbor Day Mass. 6 4 C. Tides { ^{8.9} _{9.1}	
25	W.	St. Mark. Maj. 6 4 C. in R.A. Tides { ^{9.0} _{9.4}	
26	Th.	Fast; Conf. Mem. Day 9.1 Tides { ^{9.1} _{9.1}	
27	Fr.	Tides { ^{9.5} _{9.1}	
28	Sa.	Mars Frank Knox Tides { ^{9.7} _{9.0}	
29	C	4th S. of E. Shad running Hudson R. Tides { ^{9.7} _{8.9}	
30	M.	Miss. R. crest Tides { ^{9.7} _{8.6}	

Send envelope for bargain cook book list—YANKEE, INC., Dublin, N. H.

1945]

MAY, FIFTH MONTH.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.		0 /		Days.		0 /		Days.		0 /		Days.		0 /	
	1	15 ^N .06	7	16 51	13	18 25	19	19 47	25	20 58						
	2	15 24	8	17 07	14	18 39	20	20 00	26	21 09						
	3	15 42	9	17 23	15	18 53	21	20 12	27	21 19						
	4	16 00	10	17 39	16	19 07	22	20 24	28	21 29						
	5	16 17	11	17 54	17	19 21	23	20 36	29	21 38						
	6	16 34	12	18 10	18	19 34	24	20 47	30	21 47						

- ☾ Last Quarter, 5th day, 2 h. 02 m., morning, E.
 ● New Moon, 11th day, 4 h. 21 m., evening, W.
 ☽ First Quarter, 18th day, 6 h. 12 m., evening, E.
 ○ Full Moon, 26th day, 9 h. 49 m., evening, E.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGE 12, FOR ALL POINTS OUTSIDE NEW ENGLAND.

Day of Year	Day of Month	Day of the Week	☉		☽		Length of Days.		Sun ^{h.} _{m.} ^{h.} _{m.}	Full Sea, Boston.		D	KEY	D	D's	Moon's Age
			Rises.	Key	Sets.	Key	h.	m.		Morn.	Even.					
121	1	Tu.	5 45	E	7 38	M	13 53	41	2 $\frac{1}{2}$	3	11 ^P _M 54	P	3 ^A _M 42	Sgr	19	
122	2	W.	5 44	E	7 39	M	13 55	41	3	3 $\frac{3}{4}$	—	—	4 34	Cap	20	
123	3	Th.	5 42	D	7 40	N	13 57	41	4	4 $\frac{1}{2}$	12 ^A _M 48	P	5 27	Cap	21	
124	4	Fr.	5 41	D	7 41	N	14 00	41	4 $\frac{3}{4}$	5 $\frac{1}{2}$	1 35	O	6 21	Aqr	22	
125	5	Sa.	5 40	D	7 42	N	14 02	41	5	6 $\frac{1}{2}$	2 19	N	7 15	Aqr	23	
126	6	S.	5 39	D	7 43	N	14 04	41	6	7 $\frac{1}{2}$	2 57	M	8 08	Psc	24	
127	7	M.	5 38	D	7 44	N	14 06	40	7	8 $\frac{1}{2}$	3 30	L	9 01	Psc	25	
128	8	Tu.	5 36	D	7 45	N	14 09	40	8	9 $\frac{1}{4}$	4 02	J	9 54	Ari	26	
129	9	W.	5 35	D	7 46	N	14 11	40	9	10 $\frac{1}{4}$	4 32	I	10 46	Ari	27	
130	10	Th.	5 34	D	7 47	N	14 13	40	10	11 $\frac{3}{4}$	5 ^A _M 03	G	11 ^A _M 40	Tau	28	
131	11	Fr.	5 33	D	7 48	N	14 15	40	11 $\frac{1}{2}$	—	sets	—	12 ^P _M 36	Tau	29	
132	12	Sa.	5 32	D	7 49	N	14 17	40	0	0 $\frac{1}{2}$	9 ^P _M 04	O	1 34	G'm	1	
133	13	S.	5 31	C	7 50	O	14 19	40	0 $\frac{3}{4}$	1 $\frac{1}{4}$	10 16	P	2 33	G'm	2	
134	14	M.	5 30	C	7 51	O	14 21	40	1 $\frac{1}{2}$	2 $\frac{1}{4}$	11 ^P _M 21	P	3 32	Cnc	3	
135	15	Tu.	5 29	C	7 52	O	14 23	40	2 $\frac{1}{2}$	3	—	—	4 30	Cnc	4	
136	16	W.	5 28	C	7 53	O	14 25	40	3 $\frac{1}{4}$	4	12 ^A _M 15	P	5 26	Leo	5	
137	17	Th.	5 27	C	7 54	O	14 27	40	4 $\frac{1}{4}$	5	1 03	O	6 17	Leo	6	
138	18	Fr.	5 26	C	7 55	O	14 29	40	5 $\frac{1}{4}$	5 $\frac{3}{4}$	1 41	N	7 05	Leo	7	
139	19	Sa.	5 25	C	7 56	O	14 30	40	6 $\frac{1}{4}$	6 $\frac{3}{4}$	2 13	M	7 50	Vir	8	
140	20	S.	5 25	C	7 57	O	14 32	40	7	7 $\frac{3}{4}$	2 41	L	8 33	Vir	9	
141	21	M.	5 24	C	7 58	O	14 34	40	8	8 $\frac{3}{4}$	3 06	K	9 14	Lib	10	
142	22	Tu.	5 23	C	7 59	O	14 36	41	9	9 $\frac{1}{2}$	3 30	I	9 55	Lib	11	
143	23	W.	5 22	C	7 59	O	14 37	41	9 $\frac{3}{4}$	10	3 53	H	10 36	Lib	12	
144	24	Th.	5 21	C	8 00	O	14 39	41	10 $\frac{1}{2}$	10 $\frac{3}{4}$	4 16	G	11 ^P _M 18	Sco	13	
145	25	Fr.	5 21	B	8 01	O	14 40	41	11 $\frac{1}{4}$	11 $\frac{1}{2}$	4 ^A _M 43	F	—	—	—	
146	26	Sa.	5 20	B	8 02	P	14 42	41	11 $\frac{3}{4}$	—	rises	—	12 ^A _M 02	Sco	14	
147	27	S.	5 20	B	8 03	P	14 43	41	0	0 $\frac{1}{2}$	8 ^P _M 50	O	12 49	Sgr	15	
148	28	M.	5 19	B	8 04	P	14 45	41	0 $\frac{3}{4}$	1 $\frac{1}{4}$	9 50	P	1 38	Sgr	16	
149	29	Tu.	5 18	B	8 04	P	14 46	41	1 $\frac{1}{2}$	1 $\frac{3}{4}$	10 45	P	2 30	Cap	17	
150	30	W.	5 18	B	8 05	P	14 47	41	2	2 $\frac{1}{2}$	11 ^P _M 36	O	3 23	Cap	18	
151	31	Th.	5 17	B	8 06	P	14 49	41	2 $\frac{3}{4}$	3 $\frac{1}{2}$	—	—	4 ^A _M 18	Cap	19	

MAY hath 31 days.

[1945



Lovers, walk out into this shining land
 Of apple orchard and of peach and plum,
 So windless, now, each flowering tree will stand
 Listening and stilled, as who should say: 'They come,
 These mortals, hand in hand, whose way is such
 As only our hushed shining, now, should touch.'

D. M.	D. W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	Tu.	St. Phillip & St. James. Lag $\{$ $\begin{matrix} 9.6 \\ 8.4 \end{matrix}$ $\}$ Little	
2	W.	C runs Tides $\{$ $\begin{matrix} 8.4 \\ 8.2 \end{matrix}$ $\}$ [1 st Aph. bit of	The stock is all out in the pastures now, and the planting of the gardens well under way. But frosts this month can be destructive. Learn to season hope with philosophy.
3	Th.	Invention Tides $\{$ $\begin{matrix} 9.8 \\ 8.1 \end{matrix}$ $\}$ everything.	The fire hazard may be at its peak. It would have been foresighted to have made a number of waterholes in the woods and brush lands. Not too late to do it now. Even if they dry up in summer, they will probably have held water through the period of greatest fire danger. If you have a large orchard spray tank on your farm, it is a good practice to keep it filled at all times during dry spells.
4	Fr.	R. I. Indep. Coral Sea $\{$ $\begin{matrix} 9.2 \\ 8.2 \end{matrix}$ $\}$ Stat. in R.A.	Your lanes and roadways will need repairing now after the rains and thaws of spring. Your good gravel bank is one of the most important natural assets of your farm—invaluable now to the work at hand. Gravel mixed with sawdust over rocks or slabs is especially good to fill swampy spots.
5	Sa.	Kentucky Derby Mackerel in markets Tides $\{$ $\begin{matrix} 9.1 \\ 8.4 \end{matrix}$ $\}$	Have the boy take up that old stair carpet and give it a thorough beating and sunning. While you have him at it, better let him do the same for all the rugs. He'll love this. Take a morning off, Mother, and go into the woods for May flowers and a few sprigs of wild azaleas. And don't forget the apple blossoms. The moths won't eat the house up.
6	C	Corresidor, 1942. Tides $\{$ $\begin{matrix} 8.2 \\ 8.9 \end{matrix}$ $\}$ Sultry	Hang up a dead crow in the garden.
7	M.	Minor 1st Nazi P.O.W. reach U. S. 1942 Tides $\{$ $\begin{matrix} 9.5 \\ 9.6 \end{matrix}$ $\}$	
8	Tu.	Rogation $\delta\delta\delta$ $\{$ $\begin{matrix} 9.9 \\ 10.8 \end{matrix}$ $\}$ [9 th Eq. then	
9	W.	Days. $\delta\delta\delta$ $\{$ $\begin{matrix} 10.3 \\ 11.0 \\ 11.5 \end{matrix}$ $\}$ in $\delta\delta\delta$ $\{$ $\begin{matrix} 10.3 \\ 11.0 \\ 11.5 \end{matrix}$ $\}$ in	
10	Th.	Ascension D. Conf. Mem. Day N. C. & S. C. $\{$ $\begin{matrix} 10.3 \\ 11.5 \end{matrix}$ $\}$	
11	Fr.	δ Gr. EL $\{$ $\begin{matrix} 10.8 \\ 10.8 \end{matrix}$ $\}$ [10 th in cooler.	
12	Sa.	Florence Nightingale born 1820 Tides $\{$ $\begin{matrix} 11.9 \\ 10.8 \end{matrix}$ $\}$ Fine	
13	C	Sun. a. As. Mother's Day. $\delta\delta$ $\{$ $\begin{matrix} 10.5 \\ 11.7 \\ 10.2 \end{matrix}$ $\}$ C. weather	
14	M.	Apple blossom time $\delta\delta$ $\{$ $\begin{matrix} 11.7 \\ 10.2 \end{matrix}$ $\}$ weather	
15	Tu.	C. Wingate δ Stat. $\{$ $\begin{matrix} 11.2 \\ 9.6 \end{matrix}$ $\}$ runs in R.A. high. due.	
16	W.	George Ade d. 1944 Tides $\{$ $\begin{matrix} 10.6 \\ 9.1 \end{matrix}$ $\}$ Cooler	
17	Th.	Burma Monsoon δ in δ Tides $\{$ $\begin{matrix} 9.9 \\ 8.7 \end{matrix}$ $\}$ and	
18	Fr.	Shebuoth Tides $\{$ $\begin{matrix} 9.3 \\ 8.4 \end{matrix}$ $\}$ then	
19	Sa.	Oregon primaries Tides $\{$ $\begin{matrix} 8.9 \\ 8.8 \end{matrix}$ $\}$ showers.	
20	C	White S. Pente-Hol. cost N.C. $\delta\delta$ $\{$ $\begin{matrix} 8.5 \\ 8.4 \end{matrix}$ $\}$ C. $\delta\delta$ $\{$ $\begin{matrix} 8.5 \\ 8.4 \end{matrix}$ $\}$ Gr. Hel. Lat S. $\{$ $\begin{matrix} 8.7 \\ 8.5 \end{matrix}$ $\}$ in $\{$ $\begin{matrix} 8.5 \\ 8.9 \end{matrix}$ $\}$ Apo. Eq.	
21	M.	Greatest Brilliancy. $\delta\psi\delta$ $\{$ $\begin{matrix} 8.7 \\ 8.5 \end{matrix}$ $\}$ Gr. Hel. Lat S. $\{$ $\begin{matrix} 8.7 \\ 8.5 \end{matrix}$ $\}$ in $\{$ $\begin{matrix} 8.5 \\ 8.9 \end{matrix}$ $\}$ Apo. Eq.	
22	Tu.	3rd Int. Nat'l Marine diss. 1943 Day $\{$ $\begin{matrix} 8.6 \\ 9.2 \end{matrix}$ $\}$ Unsettled.	
23	W.	Moxham quads. b. 1944 Tides $\{$ $\begin{matrix} 8.6 \\ 9.2 \end{matrix}$ $\}$ Unsettled.	
24	Th.	Mrs. W. O. Taylor d. 1944 Tides $\{$ $\begin{matrix} 8.7 \\ 9.5 \end{matrix}$ $\}$ and	
25	Fr.	Emerson b. 1803 Tides $\{$ $\begin{matrix} 8.8 \\ 9.7 \end{matrix}$ $\}$	
26	Sa.	Tides $\{$ $\begin{matrix} 8.8 \\ 9.7 \end{matrix}$ $\}$ variable	
27	C	Trinity Sun. U. S. Unl. Emerg. '41 Tides $\{$ $\begin{matrix} 9.9 \\ 8.8 \end{matrix}$ $\}$	
28	M.	"Quints" b. 1934 Tides $\{$ $\begin{matrix} 10.0 \\ 8.8 \end{matrix}$ $\}$ with	
29	Tu.	Patrick Henry b. 1736 $\{$ $\begin{matrix} 10.0 \\ 8.7 \end{matrix}$ $\}$ runs low. Tides $\{$ $\begin{matrix} 10.0 \\ 8.7 \end{matrix}$ $\}$	
30	W.	Memorial Day Tides $\{$ $\begin{matrix} 10.0 \\ 8.6 \end{matrix}$ $\}$ showers.	
31	Th.	Corpus Christi. Johnstown Flood 1889 Tides $\{$ $\begin{matrix} 9.9 \\ 8.6 \end{matrix}$ $\}$	

1945]

JUNE, SIXTH MONTH.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.	0 /	Days.	0 /	Days.	0 /	Days.	0 /	Days.	0 /				
	1	22	N.04	7	22	46	13	23	13	19	23	26	25	23
2	22	12	8	22	51	14	23	16	20	23	27	26	23	22
3	22	20	9	22	57	15	23	19	21	23	27	27	23	20
4	22	27	10	23	01	16	23	21	22	23	27	28	23	17
5	22	34	11	23	06	17	23	23	23	23	26	29	23	14
6	22	40	12	23	10	18	23	25	24	23	25	30	23	10

☾ Last Quarter, 3rd day, 9 h. 15 m., morning, W.

● New Moon, 10th day, 12 h. 26 m., morning, W.

☽ First Quarter, 17th day, 10 h. 05 m., morning, E.

○ Full Moon, 25th day, 11 h. 08 m., morning, W.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGE 12, FOR ALL POINTS OUTSIDE NEW ENGLAND.

Day of Year	Day of Month	Day of the Week	☉		☽		Length of Days.	Sun Slow.	Full Sea, Boston.		☽	Key	☽		☽'s Place	Moon's Age		
			Rises.	Key	Sets.	Key			Morn.	Even.			Rises.	Souths.				
152	1	Fr.	5	17	B	8	07	P	14	50	42	3 $\frac{1}{2}$	4 $\frac{1}{4}$	12 $\frac{A}{M}$ 20	O	5 $\frac{A}{M}$ 11	Aqr	21
153	2	Sa.	5	16	B	8	07	P	14	51	42	4 $\frac{1}{2}$	5	12 58	N	6 04	Aqr	22
154	3	S	5	16	B	8	08	P	14	52	42	5 $\frac{1}{4}$	6	1 32	L	6 56	Psc	23
155	4	M.	5	16	B	8	09	P	14	53	42	6 $\frac{1}{4}$	7	2 04	K	7 46	Psc	24
156	5	Tu.	5	15	B	8	10	P	14	54	42	7 $\frac{1}{2}$	8	2 33	I	8 37	Ari	25
157	6	W.	5	15	B	8	10	P	14	55	42	8 $\frac{1}{2}$	9	3 02	H	9 29	Ari	26
158	7	Th.	5	15	B	8	11	P	14	56	43	9 $\frac{1}{2}$	9 $\frac{3}{4}$	3 33	F	10 22	Tau	27
159	8	Fr.	5	15	B	8	11	P	14	57	43	10 $\frac{1}{4}$	10 $\frac{3}{4}$	4 07	E	11 $\frac{A}{M}$ 17	Tau	28
160	9	Sa.	5	14	B	8	12	P	14	58	43	11 $\frac{1}{4}$	11 $\frac{1}{2}$	4 $\frac{A}{M}$ 46	C	12 $\frac{P}{M}$ 15	G'm	29
161	10	S	5	14	B	8	13	P	14	58	43	—	0 $\frac{1}{4}$	sets	—	1 15	G'm	1
162	11	M.	5	14	B	8	13	P	14	59	43	0 $\frac{1}{2}$	1	10 $\frac{P}{M}$ 04	P	2 14	Cnc	2
163	12	Tu.	5	14	B	8	13	P	15	00	44	1 $\frac{1}{4}$	1 $\frac{3}{4}$	10 55	P	3 12	Cnc	3
164	13	W.	5	14	B	8	14	P	15	00	44	2	2 $\frac{3}{4}$	11 $\frac{P}{M}$ 38	O	4 07	Leo	4
165	14	Th.	5	14	B	8	14	P	15	01	44	3	3 $\frac{1}{2}$	—	—	4 57	Leo	5
166	15	Fr.	5	14	A	8	15	P	15	01	44	3 $\frac{3}{4}$	4 $\frac{1}{2}$	12 $\frac{A}{M}$ 14	N	5 45	Vir	6
167	16	Sa.	5	14	A	8	15	P	15	01	45	4 $\frac{1}{2}$	5 $\frac{1}{4}$	12 42	L	6 29	Vir	7
168	17	S	5	14	A	8	15	P	15	02	45	5 $\frac{1}{2}$	6 $\frac{1}{4}$	1 10	K	7 11	Lib	8
169	18	M.	5	14	A	8	16	P	15	02	45	6 $\frac{1}{2}$	7	1 34	J	7 52	Lib	9
170	19	Tu.	5	14	A	8	16	P	15	02	45	7 $\frac{1}{4}$	7 $\frac{3}{4}$	1 57	I	8 33	Lib	10
171	20	W.	5	14	A	8	16	P	15	02	45	8 $\frac{1}{4}$	8 $\frac{3}{4}$	2 20	H	9 14	Sco	11
172	21	Th.	5	15	A	8	17	P	15	02	46	9	9 $\frac{1}{2}$	2 45	F	9 58	Sco	12
173	22	Fr.	5	15	A	8	17	P	15	02	46	10	10 $\frac{1}{4}$	3 12	E	10 43	Sgr	13
174	23	Sa.	5	15	A	8	17	P	15	02	46	10 $\frac{3}{4}$	10 $\frac{3}{4}$	3 43	D	11 $\frac{P}{M}$ 32	Sgr	14
175	24	S	5	15	A	8	17	P	15	02	46	11 $\frac{1}{2}$	11 $\frac{1}{2}$	4 $\frac{A}{M}$ 20	C	—	—	—
176	25	M.	5	16	A	8	17	P	15	02	46	—	0	rises	—	12 $\frac{A}{M}$ 23	Sgr	15
177	26	Tu.	5	16	A	8	17	P	15	01	47	0 $\frac{1}{4}$	0 $\frac{3}{4}$	9 $\frac{P}{M}$ 32	P	1 17	Cap	16
178	27	W.	5	16	A	8	17	P	15	01	47	1	1 $\frac{1}{2}$	10 19	O	2 12	Cap	17
179	28	Th.	5	17	A	8	17	P	15	01	47	1 $\frac{1}{2}$	2 $\frac{1}{4}$	11 00	N	3 07	Aqr	18
180	29	Fr.	5	17	B	8	17	P	15	00	47	2 $\frac{1}{2}$	3	11 $\frac{P}{M}$ 36	M	4 01	Aqr	19
181	30	Sa.	5	18	B	8	17	P	15	00	47	3 $\frac{1}{4}$	3 $\frac{3}{4}$	—	—	4 $\frac{A}{M}$ 53	Psc	20



The land, indeed, is bride
 Unto the lordly sun,
 And what shall here betide,
 And what shall here be done,
 Is festival of love—
 Though man is fed thereof

D. M.	D. W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	Fr.	Nicomede. Tides {9.7 8.6	Possibly
2	Sa.	Tanana River Hol. So. Tides {9.6 8.8	rain
3	C	breaks up 3rd. Hobson's Choice {9.5 9.1	then
4	M.	1st. S. af. T. 1898. {9.4 9.5	bright
5	Tu.	Dunkirk Rome 680. {9.5 10.0	with
6	W.	Boni- K. Vic. Em. C on face abd. 1944 {9.5 10.0	with
7	Th.	Great Invasion 1944 680. 690. Tides {9.7 10.6	mild
8	Fr.	C in Peri. Tides {9.9 11.1	mild
9	Sa.	Louis Quatorze d. 1795 Tides {10.1 11.5	breezes.
10	C	680. 690. 680. 690. 680. 690. Tides {10.2 11.7	
11	M.	2nd. S. af. T. 680. 690. Tides {10.2 11.7	
12	W.	St. Barnabas. 680. 690. runs high {11.7 10.0	Foggy
13	Tu.	Strawberries ripening fast Tides {11.4 9.8	mornings
14	Th.	McArthur St. Anthony Day Pioneer D. Id. 15th {11.0 9.4	clear
15	Fr.	Flag in Day. 680. 690. Tides {9.1 10.1	afternoons.
16	Sa.	St. Bernard 680. 690. Stat. in R.A. {9.9 8.8	Sup.
17	C	Sacred B29's Bomb Heart Japan 1944 680. 690. {9.3 8.7	Easterly
18	M.	3rd. S. af. T. Bunker Hill. 1775. Here's to Pa! {8.8 8.6	
19	Tu.	C on Eq. {8.4 8.6	[17th 680. 690. weather
20	W.	Iceland Rep. fd. 1944 (17th) C Apo. {8.2 8.7	continues.
21	Th.	Holiday W. Va. 680. 690. in Aph. Tides {8.2 8.9	
22	Fr.	SUMMER BEGINS. 680. 690. ent. ers. H. C. Bumpus d. 1943 {8.2 9.2	Warm
23	Sa.	Midsunmer's Eye Tornado Pa. 1944 Tides {8.5 9.8	spell.
24	C	5th. S. a. 680. 690. Par. Ecl. 680. 690. Gr. Hel. Lat. N. {8.6 10.0	
25	M.	680. 690. [24th 680. 690. 680. 690. Gr. el. W. {8.8 10.2	
26	Tu.	C runs low. Tides {10.2 8.9	Showers
27	W.	J. Smith & Bro. Hyrum murdered 1844 Cherbouurg 1944 {10.4 9.0	
28	Th.	Fast of Tamuz Tides {10.5 9.1	are
29	Fr.	St. Peter & St. Paul. Tides {10.4 9.2	the
30	Sa.	Tides {10.3 9.4	rule.

This month you may look for hay fever, late frosts, heat waves, drought, floods, weddings, and the annual postponement of the annual fishing trip. The mournful cry of the whip-poor-will and the cheery chirp of the cricket will be heard again. Cheepers will stop cheeping, tadpoles will turn into frogs, and an army of small fry be introduced for the first time to the mysteries of the hoe. Considerable progress will be made by the weeds.

But the farm should be at its best this time of year. Haying, unless the season has been unduly dry, will be in full swing at the end of the month. Early mowing gives the best hay. And this is one job that can't be put off. Make hay while the sun shines, though there will be many a race with the swaying load to reach the barn before the storm breaks, and many a dripping day with the mown grass growing heavy in the fields.

Mulch your fruit trees deeply with the hay from your orchards. It's poor economy to use this grass for feeding—and risky, as a residue of poisonous orchard spray is sure to cling to it.

Your first plantings of spinach and peas should now be ready for the table and for canning, and your strawberries, if well-cared for, producing bravely. Though one of the most difficult and trying crops for the small home gardener, a fine commercial crop of strawberries is a real money-maker.

Sun's hot now, a hat in time will save a shine.

1945]

JULY, SEVENTH MONTH.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.		0 /		Days.		0 /		Days.		0 /		Days.		0 /																																												
	1	23N.07	7	22 35	13	21 49	19	20 50	25	19 38	2	23 02	8	22 28	14	21 40	20	20 39	26	19 25	3	22 58	9	22 21	15	21 31	21	20 28	27	19 12	4	22 53	10	22 14	16	21 21	22	20 16	28	18 58	5	22 47	11	22 06	17	21 11	23	20 04	29	18 44	6	22 41	12	21 58	18	21 01	24	19 51	30

☾ Last Quarter, 2nd day, 2 h. 13 m., evening, W.

● New Moon, 9th day, 9 h. 35 m., morning, E.

☽ First Quarter, 17th day, 3 h. 01 m., morning, W.

○ Full Moon, 24th day, 10 h. 25 m., evening, E.

☾ Last Quarter, 31st day, 6 h. 30 m., evening, W.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGE 12, FOR ALL POINTS OUTSIDE NEW ENGLAND.

Day of Year	Day of Month	Day of the Week.	☼ Rises.		Key	☽ Sets.		Key	Length of Days.	Sun. Set.	Full Sea.		Key	☽ Rises.	Key	☽ Souths.	☽'s Place	☽'s Moon's Age
			h.	m.		h.	m.				Morn.	Even.						
182	1	S.	5	18	B	8	17	P	14 59	48	4	4 ³ / ₄	12 ^A _M 07	K	5 ^A _M 44	Psc	21	
183	2	M.	5	18	B	8	17	P	14 59	48	5	5 ¹ / ₂	12 36	J	6 34	Ari	22	
184	3	Tu.	5	19	B	8	17	P	14 58	48	6	6 ¹ / ₂	1 05	H	7 24	Ari	23	
185	4	W.	5	19	B	8	17	P	14 57	48	7	7 ¹ / ₂	1 34	G	8 15	Tau	24	
186	5	Th.	5	20	B	8	16	P	14 56	48	8	8 ¹ / ₂	2 06	E	9 07	Tau	25	
187	6	Fr.	5	21	B	8	16	P	14 55	49	9	9 ¹ / ₂	2 41	D	10 02	G'm	26	
188	7	Sa.	5	21	B	8	16	P	14 54	49	10	10 ¹ / ₂	3 23	C	11 00	G'm	27	
189	8	S.	5	22	B	8	15	P	14 53	49	11	11 ¹ / ₄	4 ^A _M 12	B	11 ^A _M 59	Cnc	28	
190	9	M.	5	23	B	8	15	P	14 52	49	11 ³ / ₄	—	sets	—	12 ^F _M 57	Cnc	0	
191	10	Tu.	5	23	B	8	15	P	14 51	49	0 ¹ / ₄	0 ³ / ₄	9 ^F _M 31	O	1 54	Leo	1	
192	11	W.	5	24	B	8	14	P	14 50	49	1	1 ¹ / ₂	10 10	N	2 47	Leo	2	
193	12	Th.	5	25	B	8	14	P	14 49	49	1 ³ / ₄	2 ¹ / ₄	10 43	M	3 36	Leo	3	
194	13	Fr.	5	25	B	8	13	P	14 48	50	2 ¹ / ₂	3	11 11	L	4 22	Vir	4	
195	14	Sa.	5	26	B	8	13	P	14 47	50	3 ¹ / ₄	3 ³ / ₄	11 36	J	5 06	Vir	5	
196	15	S.	5	27	B	8	12	P	14 45	50	4	4 ¹ / ₂	12 ^M 00	I	5 48	Lib	6	
197	16	M.	5	28	B	8	11	P	14 44	50	4 ³ / ₄	5 ¹ / ₂	—	—	6 28	Lib	7	
198	17	Tu.	5	29	B	8	11	P	14 41	50	5 ³ / ₄	6 ¹ / ₄	12 ^M 23	H	7 10	Scor	8	
199	18	W.	5	29	B	8	10	O	14 40	50	6 ¹ / ₂	7	12 47	G	7 52	Scor	9	
200	19	Th.	5	30	B	8	09	O	14 39	50	7 ¹ / ₂	8	1 13	F	8 36	Scor	10	
201	20	Fr.	5	31	C	8	09	O	14 38	50	8 ³ / ₄	8 ³ / ₄	1 42	D	9 23	Sgr	11	
202	21	Sa.	5	32	C	8	08	O	14 36	50	9 ¹ / ₄	9 ¹ / ₂	2 16	C	10 14	Sgr	13	
203	22	S.	5	33	C	8	07	O	14 34	50	10	10 ¹ / ₄	2 56	C	11 ^F 07	Cap	14	
204	23	M.	5	34	C	8	06	O	14 33	50	11	11	3 ^A _M 45	B	—	—	—	
205	24	Tu.	5	35	C	8	06	O	14 31	50	11 ³ / ₄	11 ³ / ₄	rises	—	12 ^A _M 02	Cap	15	
206	25	W.	5	35	C	8	05	O	14 29	50	—	0 ¹ / ₄	8 ^F _M 58	N	12 58	Aqr	16	
207	26	Th.	5	36	C	8	04	O	14 27	50	0 ¹ / ₂	1	9 36	M	1 54	Aqr	17	
208	27	Fr.	5	37	C	8	03	O	14 25	50	1 ³ / ₄	1 ³ / ₄	10 09	L	2 48	Psc	18	
209	28	Sa.	5	38	C	8	02	O	14 24	50	2	2 ³ / ₄	10 40	J	3 40	Psc	19	
210	29	S.	5	39	C	8	01	O	14 22	50	3	3 ¹ / ₂	11 09	I	4 31	Ari	20	
211	30	M.	5	40	C	8	00	O	14 20	50	3 ³ / ₄	4 ¹ / ₄	11 ^F 37	G	5 21	Ari	21	
212	31	Tu.	5	41	C	7	59	N	14 18	50	4 ³ / ₄	5 ¹ / ₄	—	—	6 ^A _M 12	Tau	22	

JULY hath 31 days.

[1945



Now through the sultry nights the swollen grain
Ripens for meanings planted with the seed,
And man alive, wearing his earthy stain,
Sleeps in the confident answer to his need.

D.M.	D.W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	C	5th S.a.Tr. Dominion Day {10.0 9.5	Hot
2	M.	Visit of Mary. Norman Davis d. 1944 C on {9.8 Eq. {9.7	
3	Tu.	Tides {9.5 9.9	now and
4	W.	INDEPENDENCE DAY C in Peri. Tides {9.4 10.2	spell
5	Th	⊕ in Aph. ♂♂ C. Tides {9.3 10.5	of
6	Fr.	Hartford Circus Fire 1944 ♂ h ⊙. Tides {9.4 10.9	
7	Sa.	♂ ⊙ C. Tides {9.5 11.1	rain.
8	C	6th S.a.Tr. Tides {9.5 11.2	Rain
9	M.	♂ h C. ⊙ Total eclipse. C runs high Tides {9.7 11.2	
10	Tu.	Licata 1943 Tides {11.2 9.7	is due
11	W.	Canon's St. Benedict ♂ ♀ C. Tides {11.1 9.6	again.
12	Th.	Thoreau b. 1817 Tides {10.7 9.4	
13	Fr.	Forrest's Day Tenn. ♀ Gr. Hel. Lat. S. Tides {10.8 9.3	
14	Sa.	Bastille Day ♂ ♀ C. Tides {9.8 9.0	Unsettled.
15	C	8th S.a.Tr. St. Swithun ♂ ♀ C. {9.8 8.9	
16	M.	U. S. at war w. Japan 1863 C on Eq. Tides {8.3 8.7	
17	Tu.	Whistler d. 1903 C in Apo. Tides {8.4 8.6	Cools
18	W.	♀ in ♀. Tides {8.1 8.7	off
19	Th.	Past of Av. Dog Days begin Hi, Sirius! {7.9 8.5	then
20	Fr.	St. Margaret. ♂ in ♀. {7.9 9.1	showers.
21	Sa.	Belgian Ind. Day Tides {8.1 9.4	
22	C	8th S.a.Tr. Mary Magdalene. ♀ ♀ C. {8.1 9.4	
23	M.	♀ Gr. El. E. Runs low. {8.5 10.1	[22nd {8.8 9.3
24	Tu.	Pioneer Day Utah Tides {8.9 10.5	Warm
25	W.	St. James. Mussolini ousted 1943 Tides {9.3 10.7	and
26	Th.	St. Anne. Tides {10.7 9.6	
27	Fr.	Tides {10.9 9.9	Seven Sleepers seasonable.
28	Sa.	Robespierre exec. 1794 ♀ Aph. Tides {10.9 10.1	
29	C	9th S.a.Tr. C on Eq. Tides {10.7 10.2	
30	M.	in Peri. Tides {10.4 10.2	
31	Tu.	Tides {10.0 10.2	

About now the potato bugs hold their annual convention. Frequent sprayings with arsenate of lead will be mighty discouraging to them. Your cabbages, cauliflower, broccoli, tomatoes, egg plants, etc. will need watching, too. Dust or spray as needed.

Woodchucks, or deer, or rabbits, or all three, may be taking an interest in the produce now. An empty barrel stood upright in the middle of the garden will usually frighten the woodchucks. If you enclose the whole growing area with a single strand string fence, hung at intervals of four or five feet with tar paper, deer will seldom go through or over it. Number 7 shot is the surest way to let Peter understand you mean no trespassing.

Buckwheat may be sown about the middle of the month after an early crop of peas or potatoes. Cabbage should be set out now. They make a good fall and winter feed for stock.

You owe it to the boy and yourself to give the old fishing hole a try now and then. This time of year the trout will usually be found in the big pools where the water is deep and cool. But there's nothing better than a string of hornpout from the pond or river after dark—if you can stand the bugs.

Get at those weeds before they are over two inches high. No implement invented for the purpose will handle weeds four or five or more inches high without injuring the crops.

1945]

AUGUST, EIGHTH MONTH.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.			Days.			Days.			Days.			Days.		
	0	/		0	/		0	/		0	/		0	/	
1	18 ^N	00		7	16	24	13	14	39	19	12	45	25	10	44
2	17	45		8	16	07	14	14	20	20	12	25	26	10	23
3	17	29		9	15	50	15	14	02	21	12	05	27	10	02
4	17	13		10	15	33	16	13	43	22	11	45	28	9	41
5	16	57		11	15	15	17	13	24	23	11	25	29	9	20
6	16	41		12	14	57	18	13	04	24	11	05	30	8	58

- New Moon, 7th day, 8 h. 32 m., evening, W.
- ☽ First Quarter, 15th day, 8 h. 26 m., evening, W.
- Full Moon, 23rd day, 8 h. 03 m., morning, W.
- ☾ Last Quarter, 29th day, 11 h. 44 m., evening, E.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGE 12, FOR ALL POINTS OUTSIDE NEW ENGLAND.

Day of Year	Day of Month	Day of the Week	☉		Key	☽		Length of Days.	Sun Slow.	Full Sea, Boston.		☽	Key	☽	☽'s Place	Moon's Age				
			Rises.	h. m.		Sets.	h. m.			Morn.	Even.						Rises.	h. m.	Souths.	h. m.
213	1	W.	5	42	D	7	58	N	14	16	50	5 ³ / ₄	6 ¹ / ₄	12 ^A 08	F	7 ^A 03	Tau	23		
214	2	Th.	5	43	D	7	57	N	14	14	50	6 ³ / ₄	7 ¹ / ₄	12	41	D	7	57	G'm	24
215	3	Fr.	5	44	D	7	55	N	14	11	50	7 ³ / ₄	8 ¹ / ₄	1	20	C	8	52	G'm	25
216	4	Sa.	5	45	D	7	54	N	14	09	50	8 ³ / ₄	9 ¹ / ₄	2	05	B	9	49	G'm	26
217	5	S.	5	46	D	7	53	N	14	07	50	9 ³ / ₄	10 ¹ / ₄	2	59	B	10	47	Cnc	27
218	6	M.	5	47	D	7	52	N	14	05	50	10 ³ / ₄	11	3 ^A 56	B	11 ^A 43	Cnc	28		
219	7	Tu.	5	48	D	7	51	N	14	03	50	11 ³ / ₄	11 ³ / ₄	sets	—	—	12 ^P 37	Leo	29	
220	8	W.	5	49	D	7	49	N	14	01	50	—	0 ¹ / ₂	8 ^P 42	N	1	28	Leo	1	
221	9	Th.	5	50	D	7	48	N	13	58	49	0 ³ / ₄	1 ¹ / ₄	9	11	L	2	15	Vir	2
222	10	Fr.	5	51	D	7	47	N	13	56	49	1 ¹ / ₂	1 ³ / ₄	9	38	K	3	00	Vir	3
223	11	Sa.	5	52	E	7	46	M	13	54	49	2	2 ¹ / ₂	10	02	J	3	43	Lib	4
224	12	S.	5	53	E	7	44	M	13	51	49	2 ³ / ₄	3 ¹ / ₂	10	25	I	4	24	Lib	5
225	13	M.	5	54	E	7	43	M	13	49	49	3 ¹ / ₂	4	10	49	G	5	05	Lib	6
226	14	Tu.	5	55	E	7	42	M	13	47	49	4 ¹ / ₄	4 ³ / ₄	11	13	F	5	47	Scor	7
227	15	W.	5	56	E	7	40	M	13	44	48	5	5 ¹ / ₂	11 ^P 41	E	6	30	Scor	8	
228	16	Th.	5	57	E	7	39	M	13	42	48	6	6 ¹ / ₄	—	—	—	7	15	Sgr	9
229	17	Fr.	5	58	E	7	37	M	13	40	48	6 ³ / ₄	7 ¹ / ₄	12 ^A 12	D	8	03	Sgr	10	
230	18	Sa.	5	59	E	7	36	M	13	37	48	7 ³ / ₄	8	12	49	C	8	55	Sgr	11
231	19	S.	6	00	E	7	35	M	13	35	48	8 ³ / ₄	9	1	33	B	9	49	Cap	12
232	20	M.	6	01	E	7	33	L	13	32	47	9 ¹ / ₂	9 ³ / ₄	2	26	B	10	44	Cap	13
233	21	Tu.	6	02	F	7	32	L	13	31	47	10 ¹ / ₂	10 ¹ / ₂	3	27	C	11 ^P 40	Aqr	14	
234	22	W.	6	03	F	7	30	L	13	27	47	11 ¹ / ₄	11 ¹ / ₂	4 ^A 35	C	—	—	—	—	—
235	23	Th.	6	04	F	7	29	L	13	25	47	—	0	rises	—	—	12 ^A 36	Aqr	15	
236	24	Fr.	6	05	F	7	27	L	13	22	46	0 ¹ / ₄	0 ³ / ₄	8 ^P 39	K	1	30	Psc	16	
237	25	Sa.	6	06	F	7	25	L	13	20	46	1	1 ¹ / ₂	9	10	I	2	23	Psc	17
238	26	S.	6	07	F	7	24	L	13	17	46	1 ³ / ₄	2 ¹ / ₄	9	39	H	3	15	Ari	18
239	27	M.	6	08	F	7	22	L	13	14	45	2 ¹ / ₂	3	10	10	F	4	07	Ari	19
240	28	Tu.	6	09	F	7	21	L	13	12	45	3 ¹ / ₂	4	10	43	E	4	59	Tau	20
241	29	W.	6	10	F	7	19	K	13	09	45	4 ¹ / ₂	4 ³ / ₄	11 ^P 20	C	5	53	Tau	21	
242	30	Th.	6	11	G	7	18	K	13	07	45	5 ¹ / ₂	5 ³ / ₄	—	—	—	6	48	G'm	22
243	31	Fr.	6	12	G	7	16	K	13	04	44	6 ¹ / ₂	6 ³ / ₄	12 ^A 03	B	7 ^A 44	G'm	23		

AUGUST hath 31 days.

[1945



See how the moon in August stands
 More grave with wonder than before,
 Seeing the fullness of these lands,
 Whose slow abundance, more and more,
 Swells earth's incredible, fertile boon,
 Under the staring, sterile moon.

D.M.	D.W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	W.	Lammas Day. Hol. Col. Tides { ^{9.5} / _{10.2}	Fogs
2	Th.	♂♂♂. Tides { ^{9.2} / _{10.3}	along
3	Fr.	St. Stephen. ♂♂♂. Tides { ^{9.0} / _{10.3}	coast.
4	Sa.	Coast Guard Id. 1790 ♂♀♂. Tides { ^{8.9} / _{10.4}	5 th runs high
5	C	11th S.a. ♂♂. Stat. in R.A. ♂♂♂. Tides { ^{9.0} / _{10.6}	Don't let the dog days get under your skin. Keep busy and you'll forget how hot it is. It's the fellow who mops his brow in the shade with an eye to the thermometer all day who really suffers—with every one who has to listen to him. It's a good plan to restore your energy with salt tablets. Hot tea will pep you up and cool you off as well, or better, than a cold drink.
6	M.	Transfigu- Munda ration. 1943 Tides { ^{9.2} / _{10.7}	
7	Tu.	Name of Jesus Tides { ^{9.8} / _{10.7}	
8	W.	6 Nazi saboteurs exec. 1942 Tides { ^{9.5} / _{10.6}	Hot
9	Th.	Isaac Walton b. 1593 ♂♀♂. Tides { ^{10.6} / _{9.5}	then
10	Fr.	St. Lawrence. Quebec Conf. '43 Tides { ^{10.4} / _{9.5}	signs
11	Sa.	Hay fever seas. begins ♂♀♂. ♂♀♂. Tides { ^{10.1} / _{9.4}	of a
12	C	11th S.a. ♂♂. Tr. ♂♂. Eq. Tides { ^{9.7} / _{9.2}	storm.
13	M.	Nile River at its highest Tides { ^{9.2} / _{9.0}	
14	Tu.	Tempest ♂♂ in 1635 A po. Tides { ^{8.8} / _{8.9}	Muggy
15	W.	Assumption of Virgin Tides { ^{8.3} / _{8.7}	days
16	Th.	Battle of Bennington, Vt. Tides { ^{8.0} / _{8.6}	then
17	Fr.	Messina 1943 ♂♂♂. ♀ Gr. Hel. Lat. S. Tides { ^{7.8} / _{8.7}	more
18	Sa.	P. Saltonstall rep. killed 1944 Tides { ^{7.8} / _{8.9}	comfortable
19	C	12th S.a. ♂♂. Tr. Dog Days end Tides { ^{7.9} / _{9.2}	runs low.
20	M.	K. Boris d. myst. 1943 ♂♀♂. Inf. Tides { ^{8.3} / _{9.7}	
21	Tu.	W. L. Phelps d. 1943 Kiska 1943 Tides { ^{8.8} / _{10.2}	Misty
22	W.	♂♀♂. Tides { ^{9.8} / _{10.7}	hoar
23	Th.	Rumania quits 1944 Tides { ^{9.8} / _{9.8}	frost
24	Fr.	St. Bartholomew. Paris Freed 1944 Tides { ^{11.1} / _{10.4}	
25	Sa.	Tides { ^{11.3} / _{10.7}	mornings
26	C	13th S.a. ♂♂. Tr. ♂♂. In. Peri. Eq. Tides { ^{11.3} / _{10.9}	
27	M.	Tides { ^{11.0} / _{10.9}	Rains
28	Tu.	St. Augustine. Tides { ^{10.6} / _{10.7}	and
29	W.	John the Baptist beheaded. ♀ Stat. in R.A. Tides { ^{10.0} / _{10.5}	
30	Th.	Huey Long Day, La. ♂♂♂. Tides { ^{9.4} / _{10.2}	much
31	Fr.	♂♂♂. Tides { ^{8.9} / _{9.9}	colder.

1945]

SEPTEMBER, NINTH MONTH.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.			Days.			Days.			Days.			Days.		
	0	/		0	/		0	/		0	/		0	/	
1	8N.	15		7	6	02	13	3	46	19	1	27	25	0	53
2	7	53		8	5	40	14	3	23	20	1	03	26	1	17
3	7	31		9	5	17	15	3	00	21	0	40	27	1	40
4	7	09		10	4	54	16	2	36	22	0N.	17	28	2	03
5	6	47		11	4	31	17	2	13	23	0s.	07	29	2	27
6	6	25		12	4	09	18	1	50	24	0	30	30	2	50

- New Moon, 6th day, 9 h. 43 m., morning, E.
- ☽ First Quarter, 14th day, 1 h. 38 m., evening, E.
- Full Moon, 21st day, 4 h. 46 m., evening, E.
- ☾ Last Quarter, 28th day, 7 h. 24 m., morning, W.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGE 12, FOR ALL POINTS OUTSIDE NEW ENGLAND.

Day of Year	Day of Month	Day of the Week	☉		☽		Length of Days.	Sun Slow.	Full Sea. Boston.		☽		☽		☽'s Place	Moon's Age	
			Rises.	Key	Sets.	Key			Morn	Even	Rises.	Key	Souths.	h. m.			
244	1	Sa.	6 13	G	7 14	K	13 02	44	7 $\frac{1}{2}$	8	12 $\frac{1}{2}$	52	B	8 $\frac{1}{2}$	41	Cnc	25
245	2	S.	6 14	G	7 13	K	12 59	44	8 $\frac{3}{4}$	9	1 48	B	9 37	Cnc	26		
246	3	M.	6 15	G	7 11	K	12 56	43	9 $\frac{3}{4}$	10	2 49	B	10 31	Leo	27		
247	4	Tu.	6 16	G	7 09	K	12 54	43	10 $\frac{1}{2}$	10 $\frac{3}{4}$	3 53	C	11 $\frac{1}{2}$	22	Leo	28	
248	5	W.	6 17	G	7 08	K	12 51	43	11 $\frac{1}{4}$	11 $\frac{1}{2}$	4 $\frac{1}{2}$	57	D	12 $\frac{1}{2}$	10	Vir	29
249	6	Th.	6 18	G	7 06	K	12 48	42	—	0	sets	—	—	12 55	Vir	0	
250	7	Fr.	6 19	G	7 04	K	12 46	42	0 $\frac{1}{4}$	0 $\frac{3}{4}$	8 $\frac{1}{2}$	04	J	1 38	Vir	1	
251	8	Sa.	6 20	G	7 03	K	12 43	42	1	1 $\frac{1}{4}$	8 31	I	2 20	Lib	2		
252	9	S.	6 21	H	7 01	J	12 40	41	1 $\frac{3}{4}$	2	8 51	H	3 01	Lib	3		
253	10	M.	6 22	H	6 59	J	12 38	41	2 $\frac{1}{4}$	2 $\frac{3}{4}$	9 15	G	3 43	Scor	4		
254	11	Tu.	6 23	H	6 58	J	12 35	41	3	3 $\frac{1}{4}$	9 41	E	4 25	Scor	5		
255	12	W.	6 24	H	6 56	J	12 32	40	3 $\frac{3}{4}$	4	10 10	D	5 09	Scor	6		
256	13	Th.	6 25	H	6 54	J	12 29	40	4 $\frac{1}{2}$	4 $\frac{3}{4}$	10 44	C	5 55	Sgr	7		
257	14	Fr.	6 26	H	6 53	J	12 27	40	5 $\frac{1}{4}$	5 $\frac{1}{2}$	11 $\frac{1}{2}$	25	B	6 44	Sgr	8	
258	15	Sa.	6 27	H	6 51	J	12 24	39	6 $\frac{1}{4}$	6 $\frac{1}{2}$	—	—	—	7 36	Cap	9	
259	16	S.	6 28	H	6 49	J	12 21	39	7 $\frac{1}{4}$	7 $\frac{1}{2}$	12 $\frac{1}{2}$	13	B	8 30	Cap	10	
260	17	M.	6 29	H	6 47	J	12 19	39	8	8 $\frac{1}{4}$	1 09	B	9 25	Aqr	11		
261	18	Tu.	6 30	H	6 46	J	12 16	38	9	9 $\frac{1}{4}$	2 14	C	10 20	Aqr	13		
262	19	W.	6 31	I	6 44	I	12 13	38	10	10 $\frac{1}{4}$	3 23	D	11 $\frac{1}{2}$	15	Psc	14	
263	20	Th.	6 32	I	6 42	I	12 10	37	10 $\frac{3}{4}$	11	4 $\frac{1}{2}$	38	F	—	—	—	
264	21	Fr.	6 33	I	6 41	I	12 08	37	11 $\frac{1}{2}$	11 $\frac{3}{4}$	rises	—	—	12 $\frac{1}{2}$	09	Psc	15
265	22	Sa.	6 34	I	6 39	I	12 05	37	—	0 $\frac{1}{4}$	7 $\frac{1}{2}$	37	I	1 03	Ari	16	
266	23	S.	6 35	I	6 37	I	12 02	36	0 $\frac{3}{4}$	1	8 08	G	1 56	Ari	17		
267	24	M.	6 36	I	6 35	I	11 59	36	1 $\frac{1}{2}$	1 $\frac{3}{4}$	8 41	E	2 50	Tau	18		
268	25	Tu.	6 37	I	6 34	I	11 57	36	2 $\frac{1}{4}$	2 $\frac{3}{4}$	9 17	D	3 45	Tau	19		
269	26	W.	6 38	I	6 32	I	11 54	35	3 $\frac{1}{4}$	3 $\frac{1}{2}$	9 59	B	4 41	G'm	20		
270	27	Th.	6 39	I	6 30	I	11 51	35	4	4 $\frac{1}{2}$	10 47	B	5 39	G'm	21		
271	28	Fr.	6 40	I	6 29	I	11 48	35	5	5 $\frac{1}{2}$	11 $\frac{1}{2}$	42	A	6 36	Cnc	22	
272	29	Sa.	6 41	I	6 27	H	11 46	34	6 $\frac{1}{4}$	6 $\frac{1}{2}$	—	—	—	7 33	Cnc	23	
273	30	S.	6 42	I	6 25	H	11 43	34	7 $\frac{1}{4}$	7 $\frac{3}{4}$	12 $\frac{1}{2}$	43	B	8 $\frac{1}{2}$	28	Leo	24

SEPTEMBER hath 30 days.

[1945



Something is over . . . nearly . . .
 Something that will not stay,
 Though named however deary,
 Something will move away
 In a gold, misted going . . .
 Something that we could say
 Was summer, and see clearly,
 Has gone beyond our knowing

D.M.	D.W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	Sa.	St. Giles C runs high. Tides $\begin{cases} \$8.6 \\ \$9.8 \end{cases}$ Nice	<p>Now is the harvest season in garden and orchard. Don't let any of your early apples go to waste. You may be surprised at what a good market there is for your best ones. The pigs and sheep can eat a lot of the culls, and your cattle, too, in moderation. If there is a commercial cider press handy to you, they will be glad to give you the apple pulp for the carting away. This makes a good feed for your stock.</p> <p>You will start to see the results of the planning you did in the long January evenings. Being a farmer, you probably have not had things turn out as well as you thought they would. But then you hadn't thought they would—being a farmer.</p> <p>The boys and girls go back to school this month. Try this term to make a point of visiting the school at least once. Get the weeds out of your garden before they go to seed. If you are careless about this, you will pay dearly for it next year. Put your compost heap in good condition. You must have enough accumulated grass cuttings and weeds to start a new one. Turn the old one over now to make sure of even rotting throughout. If you use both lime and manure in the compost—and you should—see that the lime and manure are not in the same layers. They are there for quite different purposes. Lime kills the effectiveness of the manure.</p> <p>Don't miss the county fair—if there is one—and you have the gasoline.</p>
2	C	14th S.a. Tr. Bar. 26.35 Fla. 1935 δ h C . $\begin{cases} \$8.6 \\ \$9.9 \end{cases}$	
3	M.	Labor Day. Ital. arm. sgd. 1943 δ C . $\begin{cases} \$8.8 \\ \$10.0 \end{cases}$	
4	Tu.	My Sin 66+ mph 1939 δ C . $\begin{cases} \$9.0 \\ \$10.1 \end{cases}$ weather	
5	W.	Worst hay fever now X in Q . Tides $\begin{cases} \$9.8 \\ \$10.1 \end{cases}$	
6	Th.	P. R.R. Cong. Gr. El. $\begin{cases} - \\ \$9.5 \end{cases}$ Cloudy St. wreck 1943 W .	
7	Fr.	St. Eunnurchus Q in Q . δ C . $\begin{cases} \$10.1 \\ \$9.5 \end{cases}$ and	
8	Sa.	Nat. of Vir. Mary. δ P C . C Eq. 5706 $\begin{cases} \$10.0 \\ \$9.6 \end{cases}$ on R.H.	
9	C	16th S.a. P . Hol. $\begin{cases} \$9.7 \\ \$9.5 \end{cases}$ [8th J in Q	
10	M.	Elec. Day Maine \square \odot \odot . X in C in $\begin{cases} \$9.4 \\ \$9.4 \end{cases}$ Apo.	
11	Tu.	Tides $\begin{cases} \$9.1 \\ \$9.2 \end{cases}$ changeable.	
12	W.	N. E. "Saddest" Hol. Day 1674 Md. $\begin{cases} \$8.6 \\ \$9.0 \end{cases}$ Rainy	
13	Th.	Tides $\begin{cases} \$8.2 \\ \$8.8 \end{cases}$ spell.	
14	Fr.	Holy Cross Day Tides $\begin{cases} \$7.9 \\ \$8.6 \end{cases}$	
15	Sa.	Trees are blushing Tides $\begin{cases} \$7.7 \\ \$8.6 \end{cases}$ Frequent	
16	C	16th S.a. Tr. C runs low. $\begin{cases} \$7.7 \\ \$8.8 \end{cases}$ showers.	
17	M.	St. Lambert. Day of Atonement Constitution Day. $\begin{cases} \$8.0 \\ \$9.2 \end{cases}$	
18	Tu.	World Fair Tunbridge, Vt. Tides $\begin{cases} \$8.5 \\ \$9.7 \end{cases}$ Storm	
19	W.	Tides $\begin{cases} \$9.1 \\ \$10.3 \end{cases}$ of rain	
20	Th.	Old Ironsides Ich. 1797 X Gr. Hel. Lat. N. $\begin{cases} \$9.8 \\ \$10.8 \end{cases}$ is	
21	Fr.	St. Mathew. N. E. Hurricane 1938 $\begin{cases} \$10.5 \\ \$11.2 \end{cases}$ due.	
22	Sa.	Succoth. N. E. Hurricane 1815 C on Eq. $\begin{cases} - \\ \$11.1 \end{cases}$	
23	C	AUTUMN BEGINS. \odot en. δ P C . C Stat. in R. A. $\begin{cases} \$11.4 \\ \$11.5 \end{cases}$	
24	M.	Conc. of John the Baptist Earliest Killing frost 1879 Tides $\begin{cases} \$11.4 \\ \$11.4 \end{cases}$ Pleasant for	
25	Tu.	St. Cyprian. $\begin{cases} \$10.5 \\ \$11.1 \end{cases}$ [29th δ P C . δ h C .	
26	W.	N. E. Hurr. 1903 δ C . $\begin{cases} \$9.9 \\ \$10.6 \end{cases}$ [30th δ P C .	
27	Th.	American Indian Day δ C . C runs high. $\begin{cases} \$9.2 \\ \$10.1 \end{cases}$ some	
28	Fr.	St. Michael & All Angels. St. Atzoreth St. Jerome Simchat Torah $\begin{cases} \$8.7 \\ \$9.6 \\ \$8.4 \\ \$9.4 \end{cases}$ days.	
29	Sa.		
30	C		

Evil planned hurts the plotters most.

1945]

OCTOBER, TENTH MONTH.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.		0 /		Days.		0 /		Days.		0 /		Days.		0 /	
	1	38.	13	7	5	32	13	7	49	19	10	01	25	12	08	
	2	3	37	8	5	55	14	8	11	20	10	23	26	12	29	
	3	4	00	9	6	18	15	8	33	21	10	44	27	12	49	
	4	4	23	10	6	41	16	8	56	22	11	05	28	13	09	
	5	4	46	11	7	04	17	9	18	23	11	27	29	13	29	
	6	5	09	12	7	26	18	9	39	24	11	47	30	13	49	

- New Moon, 6th day, 1 h. 22 m., morning, E.
- ☽ First Quarter, 14th day 5 h. 38 m., morning, W.
- Full Moon, 21st day, 1 h. 32 m., morning, W.
- ☾ Last Quarter, 27th day, 6 h. 30 m., evening, W.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGE 12, FOR ALL POINTS OUTSIDE NEW ENGLAND.

Day of Year.	Day of Month.	Day of the Week.	☉		☽		Length of Days.	Sun Slow.	Full Sea, Boston.		☽		Key	☽		☽'s Place	Moon's Age
			Rises.	Key	Sets.	Key			Morn.	Even.	Rises.	Key		Souths.	m.		
274	1	M.	6 43	J	6 23	I	11 40	34	8 1/2	8 3/4	1 46	C	9 19	Leo	25		
275	2	Tu.	6 44	J	6 22	H	11 38	33	9 1/2	9 3/4	2 49	D	10 08	Leo	26		
276	3	W.	6 45	J	6 20	H	11 35	33	10 1/4	10 1/2	3 52	E	10 53	Vir	27		
277	4	Th.	6 46	J	6 18	H	11 32	33	11	11 1/4	5 54	G	11 36	Vir	28		
278	5	Fr.	6 47	J	6 17	H	11 29	32	11 1/2	—	5 55	H	12 18	Lib	29		
279	6	Sa.	6 49	J	6 15	H	11 27	32	0	0 1/4	sets	—	12 59	Lib	0		
280	7	S.	6 50	J	6 13	H	11 24	32	0 1/2	0 3/4	7 18	G	1 40	Scor	2		
281	8	M.	6 51	J	6 12	H	11 21	32	1 1/4	1 1/2	7 44	F	2 22	Scor	3		
282	9	Tu.	6 52	J	6 10	H	11 18	31	1 3/4	2	8 11	D	3 06	Scor	4		
283	10	W.	6 53	K	6 09	G	11 16	31	2 1/4	2 3/4	8 43	C	3 51	Sgr	5		
284	11	Th.	6 54	K	6 07	G	11 13	31	3 1/4	3 1/4	9 20	B	4 38	Sgr	6		
285	12	Fr.	6 55	K	6 05	G	11 10	31	4	4	10 04	B	5 28	Cap	7		
286	13	Sa.	6 56	K	6 04	G	11 07	30	4 3/4	5	10 56	B	6 20	Cap	8		
287	14	S.	6 57	K	6 02	G	11 05	30	5 3/4	5 3/4	11 55	B	7 13	Cap	9		
288	15	M.	6 58	K	6 01	G	11 02	30	6 1/2	6 3/4	—	—	8 07	Aqr	10		
289	16	Tu.	7 00	K	5 59	G	10 59	30	7 1/2	7 3/4	1 00	C	9 00	Aqr	11		
290	17	W.	7 01	K	5 58	G	10 57	29	8 1/2	8 3/4	2 11	E	9 54	Psc	12		
291	18	Th.	7 02	K	5 56	G	10 54	29	9 1/4	9 3/4	3 24	F	10 46	Psc	13		
292	19	Fr.	7 03	K	5 54	G	10 51	29	10 1/4	10 1/2	4 40	H	11 39	Ari	14		
293	20	Sa.	7 04	K	5 53	F	10 49	29	11	11 1/2	5 57	I	—	—	—		
294	21	S.	7 05	L	5 51	F	10 46	29	11 3/4	—	rises	—	12 33	Ari	15		
295	22	M.	7 07	L	5 50	F	10 43	29	0 1/2	0 1/2	7 11	D	1 29	Tau	16		
296	23	Tu.	7 08	L	5 48	F	10 41	28	1 1/4	1 1/2	7 51	C	2 26	Tau	17		
297	24	W.	7 09	L	5 47	F	10 38	28	2	2 1/4	8 38	B	3 26	G'm	18		
298	25	Th.	7 10	L	5 46	F	10 36	28	2 3/4	3 1/4	9 33	A	4 26	G'm	19		
299	26	Fr.	7 11	L	5 44	F	10 33	28	3 3/4	4	10 33	B	5 25	Cnc	20		
300	27	Sa.	7 12	L	5 43	F	10 31	28	4 3/4	5	11 37	B	6 23	Cnc	21		
301	28	S.	7 14	L	5 42	F	10 28	28	5 3/4	6 1/4	—	—	7 16	Leo	22		
302	29	M.	7 15	L	5 40	E	10 25	28	7	7 1/4	12 41	C	8 06	Leo	23		
303	30	Tu.	7 16	M	5 39	E	10 23	28	8	8 1/4	1 45	E	8 52	Vir	24		
304	31	W.	7 17	M	5 38	E	10 20	28	9	9 1/4	2 47	F	9 36	Vir	25		

Decl. incl. east - east

east

OCTOBER hath 31 days.

[1945



See how the dying leaf,
Ever more wise than we,
Turns golden all her grief,
Knowing that what must be
Is good—so wise is she

D.M.	D.W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	M.	St. Renigius, Naples 1943 $\delta \Psi \odot$ {8.5 9.4	Rain
2	Tu.	$\delta \Psi \odot$ Sup. {8.7 9.5	[1st $\delta \Psi \Psi$. and
3	W.	Dec. arith. invented 1602 $\delta \Psi \odot$. {9.0 9.5	warmer.
4	Th.	Corsica 1943 Tides {9.3 9.6	[5th \odot on Eq.
5	Fr.	Great snow 1836 $\delta \Psi \odot$. $\delta \Psi \odot$. Tides {9.5 9.6	
6	Sa.	Faith. Hol. Mo. $\delta \Psi \odot$. Tides {9.5 9.6	
7	C	19th S.a.Tr. Gale of 1849 Tides {9.5 9.7	Fine
8	M.	Chicago Fire 1871 \odot in Apo. Tides {9.3 9.7	for
9	Tu.	St. Denis. 14 in. snow 1804 Tides {9.1 9.6	a
10	W.	Chinese Double 10th Rep. Id. 1911 Tides {8.8 9.4	spell
11	Th.	11,000 Virgins Ψ in Peri. $\square \delta \odot$. Tides {8.5 9.2	
12	Fr.	Columbus Day, Azores 1948 Tides {8.1 8.9	now.
13	Sa.	Geh. Time adop. 1834 \odot runs low. Tides {7.9 8.8	
14	C	20th S.a.Tr. Ψ in Ψ . Tides {7.8 8.7	
15	M.	10 days lost 1582 Tides {7.9 8.8	Could
16	Tu.	Tides {8.3 9.2	rain
17	W.	St. Etheldred. Tides {8.8 9.6	
18	Th.	St. Luke. Little Summer. $\square \eta \odot$. Tides {9.6 10.2	
19	Fr.	Bad floods 1942 Tides {10.4 10.7	frequently
20	Sa.	Trees are bare \odot on Eq. Tides {11.1 11.1	these
21	C	21st S.a.Tr. \odot in Peri. \odot . Tides {11.6 11.6	days.
22	M.	"End of World" 1844 Tides {11.2 11.9	
23	Tu.	World created 4004 B. C. Tides {11.1 11.9	Clear
24	W.	$\delta \odot$. Ψ in Aph. $\delta \Psi \Psi$. Tides {10.8 11.7	and
25	Th.	St. Crispin. Tides {10.8 11.1	colder.
26	Fr.	Santa Cruz 1942 $\delta \delta \eta$. \odot runs high. Tides {9.6 10.5	
27	Sa.	Navy Day. Gale 1943 $\delta \eta \odot$. $\delta \delta \odot$. Tides {9.1 9.9	
28	C	22nd S.af.Tr. Simon & Jude the King Christ 194 Tides {8.7 9.4	
29	M.	Tides {8.5 9.0	[28th Ψ Gr. Hel. Lat. N.
30	Tu.	Old Time Ball Reading, Vt. $\delta \Psi \Psi$. {8.9 8.9	Possibly
31	W.	All Hallow's Eve. Hol. Nev. Tides {8.8 8.9	rain.

This is the true harvest month. Have you kept yourself posted on the best markets for your potatoes, squash, apples, etc.? It will have been shiftless of you not to have done so or not to have tuned in on daily market prices, for the financial success or failure of your whole farm year depends on your ability to sell everything at a good price. You are looking for reliable buyers who may be counted on to pay you fair prices year after year, and every wise farmer has just outlets. Bread is better than the song of birds.

You may be hard put to it to find harvest help, but here again you should have been foresighted. Your County Agricultural Agent is an ever present help in trouble and you may count on the superintendent of the local school to let boys and girls off early for just such emergencies as yours. Then you will be surprised how many factory and mill workers, if they are on the night shift, will gladly give you part of their daylight (sleeping) hours.

This is the time when you must be everywhere at once. It is so easy by careless or inexperienced harvesting to ruin the cream of the crop. How often have you heard the thump and rumble of apples dumped from the picking basket into the crate? How often have you seen your potatoes speared like a forkful of eels? But all's well that ends well—"For a week begun, God sends thread."

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NOVEMBER, ELEVENTH MONTH.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.		0 /		Days.		0 /		Days.		0 /		Days.		0 /						
	1	14	28	7	16 19	13	18 00	19	19 30	25	20 47	2	14	47	8	16 36	14	18 16	20	19 43	26
3	15	06	9	16 54	15	18 31	21	19 57	27	21 09	4	15	25	10	17 11	16	18 46	22	20 10	28	21 20
5	15	43	11	17 27	17	19 01	23	20 22	29	21 30	6	16	01	12	17 44	18	19 15	24	20 35	30	21 40

- New Moon, 4th day, 7 h. 11 m., evening, W.
- ☽ First Quarter, 12th day, 7 h. 34 m., evening, W.
- ☾ Full Moon, 19th day, 11 h. 13 m., morning, W.
- ☾ Last Quarter, 26th day, 9 h. 28 m., morning, W.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGE 12, FOR ALL POINTS OUTSIDE NEW ENGLAND.

Day of Year	Day of Month	Day of the Week	☉		Key	☽		Key	Length of Days.		Sun Slow.	Full Sea. Boston.		☽	Key	☽		☽'s Place	Moon's Age
			Rises.	h. m.		Sets.	h. m.		h.	m.		Morn.	Even.			Rises.	h. m.		
305	1	Th.	7 18	M	5 36	E	10 18	28	9 ³ / ₄	10	3 ⁴ / ₈	4 48	H	10 ¹ / ₈	18	Lib	26		
306	2	Fr.	7 20	M	5 35	E	10 15	28	10 ¹ / ₂	10 ³ / ₄	4 48	I	10 59	Lib	27				
307	3	Sa.	7 21	M	5 34	E	10 13	28	11	11 ¹ / ₂	5 ⁴ / ₈	47	J	11 ³ / ₈	39	Lib	28		
308	4	S.	7 22	M	5 33	E	10 11	28	11 ³ / ₄	—	sets	—	—	12 ² / ₈	21	Sco	29		
309	5	M.	7 23	M	5 32	E	10 08	28	0	0 ¹ / ₄	6 ¹ / ₈	14	E	1 04	Sco	1			
310	6	Tu.	7 25	M	5 30	E	10 06	28	0 ³ / ₄	1	6 44	D	1 48	Sgr	2				
311	7	W.	7 26	M	5 29	E	10 03	28	1 ¹ / ₂	1 ¹ / ₂	7 19	C	2 35	Sgr	3				
312	8	Th.	7 27	M	5 28	D	10 01	28	2	2 ¹ / ₂	8 00	B	3 24	Sgr.	4				
313	9	Fr.	7 28	N	5 27	D	9 59	28	2 ³ / ₄	2 ³ / ₄	8 49	B	4 15	Cap	5				
314	10	Sa.	7 30	N	5 26	D	9 57	28	3 ¹ / ₂	3 ¹ / ₂	9 45	B	5 07	Cap	6				
315	11	S.	7 31	N	6 25	D	9 54	28	4 ¹ / ₄	4 ¹ / ₄	10 47	C	6 00	Aqr	7				
316	12	M.	7 32	N	5 24	D	9 52	28	5 ¹ / ₄	5 ¹ / ₄	11 ⁵ / ₈	53	D	6 51	Aqr	8			
317	13	Tu.	7 33	N	5 23	D	9 50	28	6	6 ¹ / ₄	—	—	—	7 43	Psc	9			
318	14	W.	7 34	N	5 22	D	9 48	29	7	7 ¹ / ₄	1 ⁰ / ₃	03	F	8 33	Psc	10			
319	15	Th.	7 36	N	5 21	D	9 46	29	8	8 ¹ / ₄	2 15	G	9 24	Ari	11				
320	16	Fr.	7 37	N	5 20	D	9 44	29	8 ³ / ₄	9 ¹ / ₄	3 29	I	10 16	Ari	12				
321	17	Sa.	7 38	N	5 20	D	9 41	29	9 ³ / ₄	10 ¹ / ₄	4 45	J	11 ¹ / ₈	10	Tau	13			
322	18	S.	7 39	N	5 19	D	9 40	29	10 ¹ / ₂	11	6 ⁰ / ₃	03	L	—	—	—			
323	19	M.	7 40	N	5 18	D	9 38	29	11 ¹ / ₂	—	rises	—	—	12 ⁰ / ₆	06	Tau	14		
324	20	Tu.	7 42	O	5 17	C	9 36	30	0	0 ¹ / ₄	6 ² / ₈	24	B	1 05	G'm	15			
325	21	W.	7 43	O	5 17	C	9 34	30	0 ³ / ₄	1	7 17	A	2 07	G'm	16				
326	22	Th.	7 44	O	5 16	C	9 32	30	1 ⁴ / ₄	2	8 16	A	3 09	Cnc	17				
327	23	Fr.	7 45	O	5 15	C	9 30	30	2 ¹ / ₂	2 ³ / ₄	9 21	B	4 10	Cnc	18				
328	24	Sa.	7 46	O	5 15	C	9 29	31	3 ¹ / ₂	3 ³ / ₄	10 28	C	5 07	Leo	19				
329	25	S.	7 48	O	5 14	C	9 27	31	4 ¹ / ₂	4 ³ / ₄	11 ¹ / ₈	34	D	6 00	Leo	20			
330	26	M.	7 49	O	5 14	C	9 25	31	5 ¹ / ₂	5 ³ / ₄	—	—	—	6 49	Vir	21			
331	27	Tu.	7 50	O	5 13	C	9 23	32	6 ¹ / ₂	6 ³ / ₄	12 ³ / ₈	38	F	7 34	Vir	23			
332	28	W.	7 51	O	5 13	C	9 22	32	7 ¹ / ₂	7 ³ / ₄	1 40	G	8 17	Vir	24				
333	29	Th.	7 52	O	5 12	C	9 20	32	8 ¹ / ₄	8 ³ / ₄	2 41	H	8 58	Lib	25				
334	30	Fr.	7 53	O	5 12	C	9 18	33	9	9 ¹ / ₂	3 ⁴ / ₈	40	J	9 ³ / ₈	38	Lib	26		

NOVEMBER hath 30 days.

[1945



Better the naked bough,
Even the unfleshed bone
That stands before you, now:
The shape of being, shown:
Your elm tree's—or your own

D. M.	D. W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	Th.	All Saints, Bougainville 1943 $\delta\psi\epsilon$.	<p>There is no month more alive, none more powerfully suggestive of the good things of living. Every sense is deluged—the smell of burning leaves on tingling, frosty evenings; trees black and brittle against the Hunter's moon; the crazy rustle and clatter of leaf skeletons in the corners of the yard.</p> <p>This is the month of Thanksgiving. The horn of plenty is spilling over in your byres and bins, but if you have complaints, too, cast them one side quickly and get down on your knees to God that He in some measure alleviate the suffering and misery of those thousands upon thousands of families who have paid the supreme sacrifice that you—and your children might live in freedom.</p> <p>House and barn are ready for winter;—plenty of wood in the sheds and cellars, the house well banked with hay or boughs or leaves, all broken panes replaced in the barn, screens off and storm windows on—everything secure and shipshape.</p> <p>Now is the time to haul stones out of the fourteen acre field, just the work for this bracing air, but a bitter task in July. Now, too, is the time to cut next year's fence posts, make a real start on that lumbering operation in the pine lot, and haul manure to spread on land that you plan to turn over next spring.</p>
2	Fr.	♀ Gr. Hel. Lat. N. $\delta\psi\epsilon$. $\delta\psi\epsilon$. ϵ on Eq.	
3	Sa.	St. Hubert. Tides $\left\{ \begin{matrix} 9.4 \\ 9.0 \end{matrix} \right.$ Windy	
4	C	23rd S. af. τ . ϵ in Apo. Tides $\left\{ \begin{matrix} 9.6 \\ 9.0 \end{matrix} \right.$	
5	M.	Fawkes Day Tides $\left\{ \begin{matrix} 9.0 \\ 9.7 \end{matrix} \right.$ and	
6	Tu.	St. Leonard. Election Day Stat. in R.A. $\left\{ \begin{matrix} 8.9 \\ 9.7 \end{matrix} \right.$	
7	W.	No. Africa inv. 1942 $\left\{ \begin{matrix} 8.8 \\ 9.7 \end{matrix} \right.$ [6th $\delta\psi\epsilon$. colder.	
8	Th.	Tides $\left\{ \begin{matrix} 8.6 \\ 9.6 \end{matrix} \right.$ Snow	
9	Fr.	U.N.R.R.A. org. 1943 ϵ runs low. Tides $\left\{ \begin{matrix} 8.8 \\ 9.4 \end{matrix} \right.$	
10	Sa.	Luther b. 1483 Indian Tides $\left\{ \begin{matrix} 8.2 \\ 9.2 \end{matrix} \right.$ in	
11	C	Armistice Day Summer Tides $\left\{ \begin{matrix} 8.0 \\ 9.0 \end{matrix} \right.$ some	
12	M.	St. Martin. begins Tides $\left\{ \begin{matrix} 8.0 \\ 8.9 \end{matrix} \right.$ places.	
13	Tu.	St. Britins. now. ♀ Gr. Hel. Lat. S. $\left\{ \begin{matrix} 8.8 \\ 9.0 \end{matrix} \right.$	
14	W.	Shooting stars plentiful Tides $\left\{ \begin{matrix} 8.7 \\ 9.2 \end{matrix} \right.$	
15	Th.	St. Machutus. King's Name Day (Belgium) $\left\{ \begin{matrix} 9.3 \\ 9.5 \end{matrix} \right.$ A	
16	Fr.	Burma Monsoon over ϵ on Eq. Tides $\left\{ \begin{matrix} 10.0 \\ 9.9 \end{matrix} \right.$ few	
17	Sa.	Hugh of Line ♀ Gr. El. E. Tides $\left\{ \begin{matrix} 10.7 \\ 10.8 \end{matrix} \right.$ mild	
18	C	26th S. af. β . ϵ in Peri $\left\{ \begin{matrix} 11.3 \\ 10.6 \end{matrix} \right.$ days.	
19	M.	Tides $\left\{ \begin{matrix} 11.8 \\ \end{matrix} \right.$ Rain	
20	Tu.	K. Edmund Pres at Temple $\delta\delta\epsilon$. $\left\{ \begin{matrix} 10.7 \\ 12.0 \end{matrix} \right.$ or	
21	W.	Tides $\left\{ \begin{matrix} 10.6 \\ 11.9 \end{matrix} \right.$ [22nd ϵ runs high. snow.	
22	Th.	Thanksgiving. St. Cecilia. 1943 Snow $\left\{ \begin{matrix} 10.8 \\ 11.6 \end{matrix} \right.$	
23	Fr.	St. Clement. Hol. Md. $\delta\delta\epsilon$. $\delta\delta\epsilon$. $\left\{ \begin{matrix} 9.9 \\ 11.0 \end{matrix} \right.$	
24	Sa.	Tarawa 1943 Tides $\left\{ \begin{matrix} 9.5 \\ 10.4 \end{matrix} \right.$	
25	C	St. Catherine 26th S. af. Trinity 1943 Cairo $\left\{ \begin{matrix} 9.1 \\ 9.7 \end{matrix} \right.$	
26	M.	Bear K. Vt. man 1943 $\left\{ \begin{matrix} 8.8 \\ 9.2 \end{matrix} \right.$ [27th ♀ Stat. in R.A.	
27	Tu.	The Portland French fleet sank 1898 scuttled 1942 $\left\{ \begin{matrix} 8.6 \\ 8.8 \end{matrix} \right.$ Colder	
28	W.	Cocoanut Grove disaster 1942 $\left\{ \begin{matrix} 8.6 \\ 8.6 \end{matrix} \right.$ [29th ϵ on Eq. and	
29	Th.	Winston Churchill b. 1874 $\delta\psi\epsilon$. $\left\{ \begin{matrix} 8.7 \\ 8.4 \end{matrix} \right.$ dank.	
30	Fr.	St. Andrew. Chanukah $\delta\psi\epsilon$. Tides $\left\{ \begin{matrix} 8.9 \\ 8.4 \end{matrix} \right.$	

Tell a lie and find the truth—(Span. Prov.)

1945]

DECEMBER, TWELFTH MONTH.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.			Days.			Days.			Days.			Days.		
	0	/		0	/		0	/		0	/		0	/	
1	21	s.	50	7	22	38	13	23	10	19	23	25	25	23	24
2	21		59	8	22	44	14	23	14	20	23	26	26	23	22
3	22		07	9	22	50	15	23	17	21	23	27	27	23	20
4	22		16	10	22	56	16	23	20	22	23	27	28	23	17
5	22		23	11	23	01	17	23	22	23	23	26	29	23	14
6	22		31	12	23	06	18	23	24	24	23	25	30	23	10

- New Moon, 4th day, 2 h. 06 m., evening, W.
- ☽ First Quarter, 12th day, 7 h. 05 m., morning, E.
- Full Moon, 18th day, 10 h. 17 m., evening, E.
- ☾ Last Quarter, 26th day, 4 h. 00 m., morning, E.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGE 12, FOR ALL POINTS OUTSIDE NEW ENGLAND.

Day of Year	Day of Month	Day of the Week	☉ Rises. m.	☉ Key	☉ Sets. m.	☉ Key	Length of Days. h. m.	Sun. Slow. m.	Full Sea. Boston. Morn. Even. h.	☽ Rises. h. m.	☽ Key	☽ Souths. h. m.	☽ Place	☽ Moon's Arc
335	1	Sa.	7 54	O	5 11	C	9 17 33	9 3/4	10 1/4	4 ^A 39	K	10 ^A 19	Scor	27
336	2	S.	7 55	O	5 10	C	9 15 33	10 1/2	11	5 38	L	11 02	Scor	28
337	3	M.	7 56	O	5 11	C	9 14 34	11 1/4	11 3/4	6 ^A 40	M	11 ^A 46	Scor	29
338	4	Tu.	7 57	O	5 11	B	9 13 34	11 3/4	—	sets	—	12 ^P 32	Sgr	30
339	5	W.	7 58	O	5 11	B	9 12 35	0 1/2	0 1/2	5 ^P 59	B	1 21	Sgr	1
340	6	Th.	7 59	P	5 11	B	9 11 35	1	1	6 45	B	2 12	Cap	2
341	7	Fr.	8 00	P	5 11	B	9 10 36	1 3/4	1 3/4	7 39	B	3 04	Cap	3
342	8	Sa.	8 01	P	5 11	B	9 10 36	2 1/4	2 1/2	8 40	C	3 56	Aqr	4
343	9	S.	8 02	P	5 11	B	9 09 36	3	3 1/4	9 44	D	4 48	Aqr	5
344	10	M.	8 03	P	5 11	B	9 08 37	3 3/4	4	10 ^P 51	E	5 38	Aqr	6
345	11	Tu.	8 04	P	5 11	B	9 07 37	4 3/4	5	—	—	6 28	Psc	7
346	12	W.	8 05	P	5 11	B	9 06 38	5 1/2	5 3/4	12 ^M 00	G	7 17	Psc	8
347	13	Th.	8 05	P	5 11	B	9 06 38	6 1/2	7	1 11	H	8 06	Ari	9
348	14	Fr.	8 06	P	5 11	B	9 05 39	7 1/2	7 3/4	2 23	I	8 56	Ari	10
349	15	Sa.	8 07	P	5 12	B	9 05 39	8 1/4	8 3/4	3 37	K	9 49	Tau	11
350	16	S.	8 08	P	5 12	B	9 04 40	9 1/4	9 3/4	4 55	L	10 45	Tau	12
351	17	M.	8 08	P	5 12	B	9 04 40	10 1/4	10 3/4	6 ^A 12	N	11 ^P 45	G'm	13
352	18	Tu.	8 09	P	5 13	B	9 04 41	11	11 3/4	rises	—	—	—	—
353	19	W.	8 10	P	5 13	B	9 03 41	—	0	5 ^P 55	A	12 ^A 47	G'm	14
354	20	Th.	8 10	P	5 13	B	9 03 42	0 1/2	0 3/4	6 59	A	1 50	Cnc	15
355	21	Fr.	8 11	P	5 14	B	9 03 42	1 1/2	1 3/4	8 07	B	2 51	Cnc	17
356	22	Sa.	8 12	P	5 14	B	9 02 43	2 1/2	2 1/2	9 16	D	3 47	Leo	18
357	23	S.	8 12	P	5 15	B	9 03 43	3 1/4	3 1/2	10 23	E	4 40	Leo	19
358	24	M.	8 12	P	5 15	B	9 03 44	4	4 1/4	11 ^P 28	G	5 28	Vir	20
359	25	Tu.	8 12	P	5 16	B	9 04 44	5	5 1/4	—	—	6 13	Vir	21
360	26	W.	8 12	P	5 17	B	9 04 45	5 3/4	6	12 ^A 30	H	6 55	Lib	22
361	27	Th.	8 13	P	5 17	B	9 05 45	6 3/4	7	1 30	I	7 36	Lib	23
362	28	Fr.	8 13	P	5 18	B	9 05 46	7 1/2	8	2 30	J	8 17	Scor	24
363	29	Sa.	8 13	P	5 19	B	9 06 46	8 3/4	8 3/4	3 30	L	8 58	Scor	25
364	30	S.	8 13	P	5 20	B	9 06 47	9 1/4	9 3/4	4 30	M	9 42	Scor	26
365	31	M.	8 13	P	5 20	B	9 07 47	10	10 1/2	5 ^A 30	N	10 ^A 27	Sgr	27



Not yet has any snow . . . not yet . . .
 Been deep enough or cold enough
 To steep our hearts so we forget:
 This snow-month is the month when love
 So warmed the world that never again
 Shall love forsake the hearts of men . . .
 (Though, now, we redden with the shame
 Of love's eclipse, we name the name.)

D.M.	D.W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	Sa.	Teheran conf. 1943	<p>Square off those debts if you would close the year in peace. By debts we mean both money debts and debts of conscience. How heavy are the latter, for there is no short cut to a clear conscience, and in many matters we have tried to take these short cuts. Face the issues and the consequences now and end the business.</p> <p>As Christmas is the season of true humility and love, do not let false pride empty your purse to purchase the most expensive gifts. Nothing is more contrary to the spirit of giving.</p> <p>Before the great snows set in be sure now that all your farm machinery is under cover, that no equipment of any kind is left outside to be buried until spring. Have you given a thought to how you would meet a fire emergency with the roads blocked and a storm raging? Be sure the rubbish is out of your cellar and no papers or other inflammable matter is piled in the attic around your chimney. Have you fire extinguishers? Do you and every member of the family know where they are? At least have buckets of water where they may be easily reached.</p> <p>Prepare now for the comfort of the family. There is no better road to happiness than that which leads us to make those around us happier.</p> <p>You will remember others less fortunate than yourself and study how best to be helpful and neighborly. It takes good neighbors to make a good neighborhood.</p>
2	C	1st S. in Ad. ♀ in ☽. { 9.4 8.5	
3	M.	♂ ♀ ☽. Tides { 9.6 8.5	
4	Tu.	Grange 1867 Tides { 9.7 5th ♂ Stat. in R. A.	
5	W.	Julia Litchfield d. 1943 ♂ ♀ ☽. { 8.6 9.8	
6	Th.	St. Nicholas. { 8.5 9.8 [7th ♂ ☽. ☉ in Perl.	
7	Fr.	Pearl Harbor 1941 ♂ ♀ ☽. ☾ runs low. { 8.5 9.8	
8	Sa.	Immac. Conc. of Virgin Mary. Tides { 8.4 9.7	
9	C	2d S. in Ad. Tides { 8.4 9.5	
10	M.	Kelly & Levin d. 1941 Tides { 8.4 9.3	
11	Tu.	Geo. Corry d. 1943 Tides { 8.5 9.2	
12	W.	Lord Lothian d. 1940 ♂ ♀ ♀. Tides { 8.8 9.2	
13	Th.	St. Lucy. ☾ on Eq. { 9.2 9.2	
14	Fr.	The Halcyon Days (thru 28th) Geo. VI b. 1895 { 9.7 9.8	
15	Sa.	Bill of Rights 1791 Tides { 10.2 9.5	
16	C	3d Sun. in Ad. { 10.8 9.5 [17th ☽ in Peri.	
17	M.	Sapientia ☽ Stat. in R. A. ☽ Gr. Hel. Lat. N. { 11.8 10.0	
18	Tu.	♂ ☽ ☽. ☽ in Aph. ☽ Total Eclipse { 11.6 10.1	
19	W.	D. B. Updike d. 1941 ☽ on Eq. ☽ runs high. { - 11.7	
20	Th.	1st spot new sun-spot cycle fd. 1942 ♂ ☽ ☽. { 10.1 11.7	
21	Fr.	St. Thomas, Forefather's Day. ♂ ☽ ☽. { 9.9 11.3	
22	Sa.	WIN. BEG. ☽ on Eq. Dr. J. Kimball d. 1943 (21st) { 9.7 10.8	
23	C	4th S. in Ad. Connie Mack b. 1862 { 9.4 10.2	
24	M.	Capt. Jos. Gairard d. 1943 (23rd) { 9.4 9.6	
25	Tu.	Christmas. Tides { 8.9 9.0	
26	W.	St. Stephen. ♂ ♀ ☽. ☽ on Eq. Gr. El. W. ☽ on Eq. { 8.7 8.5	
27	Th.	St. John. ♂ ☽ ☽. Tides { 8.6 8.2	
28	Fr.	Holy Inn. or Childermas. ♀ in ☽. { 8.6 8.0	
29	Sa.	Billy Mitchell horn 1879 ☽ in Apo. { 8.8 7.9	
30	C	1st S. af. Ch. ☽ in ☽. { 8.9 8.0	
31	M.	St. Sylvester. Inventory Day. { 9.2 8.1	

PLANTING ZONE MAP AND GUIDE

Courtesy Weather Bureau — U. S. Dept. of Commerce

The map and tables herewith will serve as aids in determining the best planting dates for vegetables. They are based on long time averages of dates of the last Spring frosts. Actually you may find the last Spring frost occurs earlier—or later.

To use this map and table locate the zone you live in on the map. Consult Table 1 in the column marked for your Zone and read off the planting date against the vegetable in which you are interested. You will also note there are Groups 1, 2, 3 and 4 listed in Table 1. Looking at Table 2, you will find that these four groups are detailed lists of certain vegetables which can, in certain zones, be planted earlier . . . and the dates given in said table correct those listed in Table 1.

It must be borne in mind that the location and exposure of your plot is a major consideration. A high well drained lot, facing South, may be a week or two earlier than the average lot. Further, the altitude at which you live will alter these tables . . . one thousand feet of altitude affecting the planting date by as much as two weeks. It is just as well not to get your seeds in too early outside. Look to your greenhouse, hot bed, and cold frames for rushing the season. Vegetables will come along just as fast if they are planted after the season is favorable.

AVERAGE DATES FIRST AND LAST KILLING FROSTS

Boston	Apr. 14 — Oct. 26	Richmond	Mar. 31 — Nov. 2
Albany	Apr. 24 — Oct. 15	Raleigh	Mar. 27 — Nov. 5
Harrisburg	Apr. 9 — Oct. 28	Macon	Mar. 14 — Nov. 14
Cincinnati	Apr. 8 — Oct. 23	Del Rio	Feb. 23 — Nov. 27
Toledo	Apr. 22 — Oct. 18	Helena	May 7 — Sept. 29
Chicago	Apr. 16 — Oct. 19	Santa Fe	Apr. 25 — Oct. 19
Detroit	Apr. 28 — Oct. 15	Tucson	Mar. 11 — Nov. 9
Duluth	May 6 — Oct. 5	Yuma	Jan. 20 — Dec. 20
Bismarck	May 11 — Sept. 21	Portland, Ore.	Mar. 15 — Nov. 21
Omaha	Apr. 14 — Oct. 15	San Francisco	Jan. 13 — Dec. 29



TABLE 1

Crop	Zone A	Zone B	Zone C
Asparagus.....		Feb. 1 to Mar. 1..	Mar. 1 to 15.....
Beans, lima.....	Mar. 1 to 15.....	Mar. 15 to Apr. 1..	Apr. 1 to 15.....
Beans, snap.....	Feb. 15 to Mar. 1..	Mar. 1 to 15.....	Mar. 15 to 30.....
Beets.....	Feb. 1 to 15.....	Feb. 15 to Mar. 1..	Mar. 1 to 15.....
Corn, sweet.....	Feb. 15 to Mar. 1..	Mar. 1 to 15.....	Mar. 15 to Apr. 1..
Cucumbers.....	Mar. 1 to 15.....	Mar. 15 to Apr. 1..	Apr. 1 to 15.....
Kale.....	Jan. 1 to Feb. 1..	Feb. 1 to 15.....	Feb. 15 to Mar. 1..
Okra.....	Feb. 15 to Mar. 1..	Mar. 1 to 15.....	Mar. 15 to 30.....
Peas.....	Jan. 1 to Feb. 1..	Feb. 1 to 15.....	Feb. 15 to Mar. 1..
Rhubarb.....			
Salsify.....	Feb. 1 to 15.....	Feb. 15 to Mar. 1..	Mar. 1 to 15.....
Spinach.....	do.....	do.....	do.....
Squash.....	Mar. 1 to 15.....	Mar. 15 to Apr. 1..	Apr. 1 to 15.....
Group 1 (See Table 2).....	Jan. 1 to Feb. 1..	Jan. 15 to Feb. 15.	Feb. 15 to Mar. 1..
Group 2 (See Table 2).....	do.....	Feb. 1 to 15.....	do.....
Group 3 (See Table 2).....	Feb. 1 to 15.....	Feb. 15 to Mar. 1..	Mar. 1 to 15.....
Group 4 (See Table 2).....	Mar. 1 to 15.....	Mar. 15 to Apr. 1..	Apr. 1 to 15.....

Crop	Zone D	Zone E	Zone F	Zone G
Asparagus....	Mar. 15 to Apr. 15	Apr. 15 to May 1	May 1 to May 15	May 15 to June 1
Beans, lima....	May 1 to 15....	May 15 to June 1	May 15 to June 15
Beans, snap....	Apr. 1 to May 1	May 1 to 15....	May 15 to June 1	May 15 to June 15
Beets.....	Mar. 15 to Apr. 15	Apr. 15 to May 1	May 1 to 15....	May 15 to June 1
Corn, sweet....	Apr. 1 to May 15	Apr. 15 to May 15	May 1 to June 1	May 15 to June 15
Cucumbers....	Apr. 15 to May 1	May 1 to June 1	May 15 to June 15	June 1 to 15....
Kale.....	Mar. 1 to 15....	Mar. 15 to Apr. 15	Apr. 15 to May 1	May 1 to June 1
Okra.....	Apr. 15 to May 1	May 1 to 15....	May 15 to June 1
Peas.....	Mar. 1 to 15....	Mar. 15 to Apr. 15	Apr. 15 to May 1	May 1 to June 1
Rhubarb.....	Mar. 15 to Apr. 15	Apr. 1 to May 1	Apr. 15 to May 15	do.....
Salsify.....	do.....	Apr. 15 to May 1	May 1 to 15....	May 15 to June 1
Spinach.....	Mar. 1 to Apr. 1	Mar. 15 to Apr. 15	Apr. 15 to May 1	May 1 to 15....
Squash.....	Apr. 15 to May 1	May 1 to June 1	June 1 to 15....	June 1 to 15....
Group 1 (See Table 2).	Mar. 1 to 15....	Mar. 15 to Apr. 15	Apr. 15 to May 1	May 1 to 15....
Group 2 (See Table 2).	do.....	do.....	Apr. 1 to May 1	do.....
Group 3 (See Table 2).	Mar. 15 to Apr. 1	Apr. 1 to May 1	May 1 to 15....	May 15 to June 1
Group 4 (See Table 2).	Apr. 15 to May 1	May 1 to June 1	May 15 to June 15	June 1 to 15....

TABLE 2

GROUP 1

Broccoli, Brussels Sprouts, Cabbage, Cardoon, Cauliflower, Celery, Chard.

GROUP 2

Chives, Collard Plants, Garlic, Leek, Onion Plants and Sets, Potatoes (a), Radishes (b), Turnips (b), Rutabaga (b).

GROUP 3

Carrots (c), Cress, Endive, Kohlrabi, Lettuce (d), Mustard (d), Onion Seed, Parsley, Parsnip.

GROUP 4

Eggplants, Muskmelons (e), Pumpkins (f), Sweet Potatoes (f), Tomato Plants (g), Watermelons (g, h).

(a) Zone F, April 15-May 1, Zone G, May 1-June 1; (b) Zone F, April 15-May 1; (c) Zone E, April 15-May 1, Zone G, May 1-June 1; (d) Zone D, March 15-April 15; (e) Zone F, June 1-15; (f) Zone F, June 1-15, Zone G blank; (g) Zone F, June 1-15, Zone G, June 15-30; (h) Zone F, June 1-15, Zone G blank.

1944-5 GAME LAWS

Open seasons include both dates. "Rabbit" includes hare; "quall" includes "partridge" in South; "grouse" includes Canada grouse, sharp-tailed, ruffed (known as partridge in North and pheasant in South) and all other members of family, except prairie chickens, ptarmigan and sage hens. States marked (*) did not have complete laws available at press time. VERIFY these tables — we can not guarantee them.

♂ males only. †Local exceptions.

State and Species	Seasons	Limits, Season	State and Species	Season	Limits, Season
Alabama*			Delaware		
Deer	Nov. 20-Jan. 1 ♂	3	Rabbit	Nov. 15-Dec. 31	12
Bear	No open season		Squirrel	Sept. 15-Nov. 1	12
Rabbit	Oct. 1-Feb. 20		Quall	Nov. 15-Dec. 31	24
Squirrel	{N-Oct. 1-Jan. 1 S-Oct. 15-Jan. 15		Pheasant	Nov. 15-Dec. 31 ♂	6
Quall	Nov. 20-Feb. 20				
Pheasant	No open season		Florida*		
Turkey	{Nov. 20-Jan. 1 † ♂ Mar. 20-Apr. 15 † ♂	5	Deer	Nov. 20-Dec. 31 † ♂	2
			Squirrel	Nov. 20-Feb. 15 †	
Alaska			Quall	Nov. 20-Feb. 15 †	
Deer	Sept. 1-Nov. 15 † ♂	2†	Grouse, pheasant	No open season	
	{N-Sept. 1-Sept. 30 ♂ Dec. 1-Dec. 31	1	Turkey	Nov. 20-Feb. 15 †	5
Moose	S-Nov. 16-Dec. 15 ♂				
			Georgia		
Bear	Sept. 1-June 20	2†	Deer	Nov. 10-Jan. 15 † ♂	2
Caribou	Sept. 1-Oct. 15	2†	Bear	Nov. 20-Feb. 28	
Mountain goat	Sept. 1-Oct. 31	2	Squirrel	Sept. 15-Dec. 15 †	
Grouse	Sept. 1-June 30		Quall	Nov. 20-Mar. 15	
Ptarmigan	Sept. 1-June 30		Grouse	Nov. 20-Jan. 15	
			Turkey	Nov. 20-Mar. 1 †	2
Arizona*			Rabbit	No closed season	
Deer	N-Oct. 16-Nov. 15 ♂	1			
	S-Nov. 1-Nov. 30 † ♂	1	Idaho		
Bear	Oct. 16-Nov. 15 †	1	Deer, elk	Local seasons	1
Elk	By permit		Antelope	Local seasons	
Rabbit	Nov. 1-Jan. 31 †		Bear	Jan. 1-Dec. 31 †	1
Abert Squirrel	Oct. 16-Nov. 15 †		Goat	Local seasons	1
Quall	Nov. 16-Nov. 30 †		Sheep	No open season	
Grouse, pheasant	No open season		Quall (Bob- white)	Local seasons	
Turkey	Oct. 16-Nov. 15 †	2	Quall (others)	Local seasons	
Antelope	By Permit † ♂	1	Prairie chicken	No open season	
			Hun. partridge	Local seasons	
Arkansas			Sage hen	Local seasons	
Deer	{Nov. 13-Nov. 18 ♂ Dec. 11-Dec. 16	1	Pheasant	Local seasons	
Bear	No open season				
Squirrel	{May 15-June 15 † Oct. 1-Jan. 1 †		Illinois		
Quall	Dec. 1-Jan. 31		Deer	No open season	
Prairie chicken, pheasant	No open season		Rabbit	Nov. 11-Jan. 31	
Turkey	Apr. 1-Apr. 15 ♂	2	Squirrel	Aug. 15-Nov. 15 †	
			Quall	Nov. 11-Dec. 11	
California			Pheasant	Nov. 11-Nov. 20 ♂	
Deer	Aug. 1-Oct. 15	2†	Turkey, grouse	No open season	
Antelope (by permit)	Sept. 8-Sept. 17 ♂	1			
Bear	Oct. 15-Dec. 31 †	2	Indiana		
Rabbit	Nov. 15-Dec. 31 †		Deer	No open season	
Squirrel	No open season		Rabbit	Nov. 10-Jan. 10	
Quall	Nov. 15-Dec. 31 †		Squirrel	Aug. 10-Oct. 8	
Grouse	No open season		Quall	Nov. 10-Dec. 20	
Pheasant	Nov. 26-Dec. 10		Grouse	No open season	
Turkey	No open season		Prairie chicken	No open season	
			Pheasant	Nov. 10-Nov. 19 ♂	
Colorado			Hun. partridge	Nov. 10-Dec. 20	
Deer	Oct. 1-Nov. 5 † ♂	1†	Turkey, chukar partridge	No open season	
Elk	Oct. 7-Nov. 5 † ♂	1†			
Antlerless deer and elk by permit	Special seasons		Iowa		
Bear	Oct. 7-Nov. 5	1†	Deer	No open season	
Sheep	No open season		Rabbit	Aug. 1-Mar. 1	
Quall	Nov. 19-Dec. 31 ♂		Squirrel	Sept. 15-Nov. 15	
Grouse	No open season		Pheasant	Oct. 28-Oct. 30 † ♂	
Prairie chicken	No open season		Quall	Nov. 1-Nov. 30	
Sage hen	No open season		Prairie chicken	No open season	
Pheasant	Nov. 19-Dec. 31 ♂		Hungarian partridge	Nov. 12-Nov. 14 †	
Rabbit	Oct. 1-Feb. 1				
Connecticut			Kansas		
Deer	No open season		Deer	No open season	
Rabbit	Nov. 1-Dec. 31	30	Squirrel	June 15-Nov. 30	
Squirrel	Oct. 21-Nov. 25	30	Quall	Nov. 20-Nov. 30	25
Quall	No open season*		Grouse	No open season	
Pheasant	Oct. 21-Nov. 25	15	Pheasant	Oct. 26-Oct. 29 † ♂	6
Grouse	Oct. 21-Nov. 25	15			
Hungarian partridge	No open season				

Kentucky			Montana		
Deer	No open season		Deer	Oct. 15-Nov. 15† ♂	1
Rabbit	Nov. 10-Dec. 31		Bear	Apr. 15-Nov. 15†	1
Squirrel	{ Aug. 1-Sept. 15		Elk	Oct. 15-Nov. 15†	1
Quail	Nov. 24-Dec. 31		Goat	Local seasons†	1
Ruffed Grouse	Nov. 10-Dec. 31	10	Sheep	No open season	
	Dec. 1-Dec. 15		Caribou	No open season	
			Grouse		
Louisiana			Quail, turkey	} Dates not set	
Deer	Nov. 15-Jan. 1 ♂	2	Sage hen		
Bear	Nov. 1-Jan. 1	2	Hun. partridge		
Rabbit	Oct. 1-Mar. 1		Pheasant		
Squirrel	Oct. 1-Jan. 15	120			
Quail	Dec. 1-Feb. 20	120	Nebraska*		
Pheasant; turkey	No open season		Deer	No open season	
			Rabbit	No closed season	
			Squirrel	Oct. 15-Dec. 31	
Maine			Quail, grouse,		
Deer	Oct. 21-Nov. 30†	1	prairie chicken,		
Moose	No open season		turkey	No open season*	
Bear	No closed season			{ Oct. 15-Nov. 21† ♂	
Rabbit	Oct. 1-Feb. 28†		Pheasant	{ Nov. 19-Nov. 30† ♂	
Squirrel	Oct. 1-Oct. 31				
Pheasant	Nov. 1-Nov. 14	12	Nevada		
Grouse	Oct. 1-Nov. 15		Deer	Oct. 1-Nov. 14 ♂	1
			Rabbit	Nov. 1-Dec. 31†	
			Quail	} Oct. 15-Oct. 29	
			Pheasant		
Maryland			New Hampshire		
Deer	Dec. 4-Dec. 9† ♂	1	Deer	Oct. 15-Dec. 21†	1
Rabbit	Nov. 15-Dec. 31†		Bear	No closed season	
Squirrel	Nov. 15-Dec. 31†		Rabbit, hare	Oct. 1-Feb. 15	
Quail	Nov. 15-Dec. 31†		Squirrel	Oct. 1-Nov. 1	
Grouse	Nov. 15-Dec. 31†	6	Quail	Oct. 1-Oct. 31	
Pheasant	Nov. 15-Dec. 31† ♂	6	Grouse	Oct. 1-Dec. 1	25
Turkey	Nov. 15-Dec. 31†	4	Pheasant	Nov. 1-Nov. 16† ♂	4
Massachusetts			New Jersey		
Deer	Dec. 7-Dec. 12†	1	Deer	Dec. 17-Dec. 21 ♂	1
Rabbit, hare	Oct. 20-Feb. 15†		Rabbit, squirrel	Nov. 10-Dec. 15	
Squirrel	Oct. 20-Nov. 20	15	Quail	Nov. 10-Dec. 15†	
Quail	Oct. 20-Nov. 20†	20	Grouse	Nov. 10-Dec. 15	30
Grouse	Oct. 20-Nov. 20	15	Pheasant	Nov. 10-Dec. 15 ♂	
Pheasant	Oct. 20-Nov. 20	6 ♂			
Michigan			New Mexico		
Deer	Nov. 15-Nov. 30†	1	Deer	Nov. 10-Nov. 21† ♂	1
Deer (bow & arrow)	Nov. 1-Nov. 14	1	Elk	Nov. 10-Nov. 21† ♂	1
Bear	Nov. 15-Nov. 30†	1	Bear	Nov. 10-Nov. 21†	1†
Rabbit	{ U-Oct. 1-Mar. 1	50	Goat, sheep	No open season	
Squirrel	{ L-Oct. 15-Nov. 5	25	Antelope	Shooting by permit† ♂	
Quail	{ U-Oct. 15-Nov. 5	25			
Grouse, prairie chicken	{ L-Oct. 15-Nov. 20†	25	Quail (ex. bob-white & Mearns')	Nov. 10-Dec. 19	48
Pheasant	{ L-Oct. 15-Nov. 5†	25	Blue grouse	Sept. 23-Sept. 26	
Quail and turkey	No open season	8	Prairie chicken	No open season	
Woodchuck	L-Oct. 15-Jan. 31		Pheasant	Oct. 24-Oct. 26† ♂	2
			Turkey	Nov. 10-Nov. 21†	2
			Squirrel	Nov. 10-Nov. 21	5
Minnesota*			New York		
Deer	Nov. 20-Nov. 24†	1	Deer	Oct. 20-Nov. 30† ♂	1
Bear	No closed season		Bear	Nov. 1-Nov. 30†	1
Squirrel	Oct. 15-Dec. 31		Rabbit	Oct. 16-Jan. 31†	
Prairie Chicken, sh'tail grouse	Sept. 19-Sept. 28†		Squirrel	Oct. 16-Nov. 15	
Grouse	Sept. 25-Nov. 21†		Quail	No open season	
Quail	Oct. 31-Nov. 16†		Grouse	{ N-Oct. 1-Nov. 12	15
Pheasant	Oct. 23-Nov. 14	18		{ S-Oct. 15-Nov. 20	15
Hun. partridge	Oct. 17-Oct. 25†		Pheasant	Oct. 16-Oct. 30 ♂	6
Mississippi			Long Island		
Deer	{ Nov. 20-Dec. 1†	1	Deer	No open season	
Bear	{ Dec. 20-Jan. 1†		Rabbit, squirrel	Nov. 1-Dec. 31	
Rabbit	No open season		Quail	Nov. 1-Dec. 31	40
Squirrel	No closed season		Grouse	Nov. 1-Dec. 15	15
Quail	Local seas. 5 zones		Pheasant	Nov. 1-Dec. 31 ♂*	30
Grouse, pheasant	Dec. 10-Feb. 20†		North Carolina*		
Turkey	No open season		Deer	Oct. 1-Jan. 1† ♂	3
	Apr. 1-Apr. 20 ♂	1	Bear	Oct. 1-Jan. 1†	2
			Rabbit	Nov. 25-Feb. 10	
			Squirrel	Oct. 1-Jan. 15†	
			Quail	Nov. 25-Feb. 10†	150
			Grouse	Nov. 25-Jan. 1	10
			Turkey	Nov. 25-Feb. 10†	3
			Russian boar	Oct. 15-Jan. 1†	2
Missouri*			North Dakota*		
Deer	No open season		Deer	No open season	
Squirrel	June 1-Oct. 31		Quail	No open season	
Quail	Nov. 10-Dec. 31		Grouse (All)	Sept. 25-Oct. 15	20
Turkey	No open season		Pheasant	Sept. 25-Dec. 31†	20
Grouse, prairie chicken	No open season		Hun. partridge	Sept. 25-Dec. 3	20
Pheasant	No open season				
Rabbits,	Nov. 10-Dec. 31†				
groundhogs	Oct. 31-Nov. 10				

Ohio Deer Rabbit Squirrel Quail Pheasant Hun. partridge Grouse	Dec. 4-Dec. 9† ♂ Nov. 17-Jan. 13 Sept 15-Sept. 30† No open season Nov. 17-Dec. 2 Nov. 17-Dec. 2	1	Utah Deer Elk (By permit) Grouse, sage hen, prairie chicken {Pheasant Quail	Oct. 16-Oct. 31† ♂ No open season Nov. 4-Nov. 8	1 1 3†
Oklahoma Elk Squirrel Quail Prairie chicken Pheasant, turkey	No open season May 15-Jan. 1 Intermittent† No open season No open season		Vermont Deer Squirrel Rabbit Quail Grouse Pheasant	Nov. 21-Nov. 30† ♂ Oct. 1-Oct. 31 Oct. 1-Feb. 28 Oct. 1-Oct. 31 Oct. 1-Nov. 9 Oct. Sat. & Wed.	1 25 25 4
Oregon Deer Elk Antelope Mountain goat Mountain sheep Squirrel Quail Grouse Pheasant Hun. partridge Prairie chicken, sage hen, turkey	Oct. 1-Nov. 31 ♂ Oct. 26-Nov. 30 Sept. 18-Oct. 3 No open season Sept. 15-Oct. 20 Oct. 16-Nov. 7† No open season	1 1 1	Virginia* Deer Bear Elk Rabbit Squirrel Quail Grouse Pheasant Turkey	Nov. 20-Jan. 1† ♂ Nov. 20-Dec. 31† Nov. 9, 10, 11 Nov. 20-Jan. 20† {Sept. 1-Sept. 15 Nov. 20-Jan. 20 Nov. 20-Jan. 20† Same as quail†	1 1 75 75 125 15 20† 4†
Pennsylvania Deer Bear Rabbit Squirrel Quail Ruffed grouse Pheasant Turkey Hun. partridge Woodchuck	Dec. 1-Dec. 16 ♂ Nov. 27-Nov. 30 Nov. 1-Nov. 30 Nov. 1-Nov. 30 Nov. 1-Nov. 30 Nov. 1-Nov. 30 Nov. 1-Nov. 30 Nov. 1-Nov. 30† July 1-Sept. 30	1 1 25 24 15 10 12 1 8	Washington Deer Bear Elk Rabbit Grouse Quail Pheasant Hungarian partridge	Oct. 8-Nov. 5† ♂ Oct. 29-Nov. 5 Nov. 5-Nov. 19† ♂ Oct. 15-Feb. 28† Oct. 8-Nov. 1† Oct. 15-Nov. 26†	1 1 1 1
Rhode Island Deer Rabbit Hare Squirrel Quail Grouse Pheasant	No open season Nov. 1-Dec. 31 Nov. 1-Dec. 31 Nov. 1-Dec. 31 Nov. 1-Dec. 31 Nov. 1-Dec. 31† Nov. 1-Dec. 31 ♂				
South Carolina Deer Rabbit Squirrel Quail Grouse Turkey	Aug. 15-Jan. 1† ♂ Sept. 1-Mar. 1† Sept. 1-Mar. 1† Nov. 23-Mar. 1† No open season Nov. 22-Mar. 1† ♂	5 20	West Virginia Deer Rabbit Squirrel Quail Grouse Turkey Bear Woodchuck Pheasant	Dec. 4-Dec. 9† ♂ Nov. 11-Jan. 15 Oct. 12-Nov. 25 Nov. 11-Dec. 25 Oct. 12-Dec. 25 Oct. 12-Nov. 18 Nov. 27-Dec. 2 July 1 Dec. 31† Nov. 11-Nov. 18† ♂	1 40 24 35 12 1 1 3
South Dakota* Deer Antelope, sheep Quail Grouse, prairie chicken Pheasant Hun. partridge	Nov. 1-Nov. 20† ♂ No open season No open season Sept. 25-Oct. 24† Sept. 25-Jan. 31† Sept. 26-Oct. 24†	1	Wisconsin Deer Deer (bow & arrow) Bear Moose Rabbit, hare Squirrel Grouse Pheasant Hun. partridge Quail	Nov. 18-Nov. 21† ♂ Oct. 2-Nov. 12† Nov. 18-Nov. 21† No open season Oct. 16-Jan. 31† Oct. 16-Nov. 12 Sept. 18-Nov. 12 {Oct. 16-Nov. 12† Nov. 8-Nov. 12†	1 1 1
Tennessee Deer Bear Rabbit Squirrel Quail Grouse Turkey Wild boar	Special seasons Special seasons Nov. 25-Jan. 25 Aug. 1-Dec. 31† Nov. 25-Jan. 25 Nov. 25-Jan. 25 No open season† Special seasons	1† 1†	Wyoming Deer Moose Elk Bear Sheep Antelope Quail Prairie chicken Grouse Pheasant Sage hen Hun. partridge	Local season† ♂ Local seasons ♂ Local season† ♂ Local seasons Local seasons† ♂ Local seasons† No open season No open season No open season Oct. 1-Nov. 30† ♂ No open season Oct. 1-Nov. 30† ♂	1 1 1 1 1 1 1
Texas Deer Bear Peccary Squirrel Quail Grouse, pheasant Prairie chicken Turkey	Nov. 16-Dec. 31† ♂ Nov. 16-Dec. 31 Nov. 16-Dec. 31† {Oct. 1-Dec. 31† May 1-July 31† Dec. 1-Jan. 16† No open season No open season Nov. 16-Dec. 31† ♂	2† 1 2 3			

MIGRATORY GAME BIRDS — UNITED STATES

DUCK, GOOSE, BRANT AND COOT

Northern Zone, Sept. 20-Dec. 8 — Iowa, Maine, Michigan, Minnesota, Montana, New Hampshire, New York (Essex, Clinton and Washington Cos. east of D. & H. R. R. and waters of South Bay only), North Dakota, Ohio (except Pymatuning Reservoir), South Dakota, Vermont, Wisconsin.

(Scoters or sea coots may also be taken in open coastal waters of Maine and New Hampshire from Sept. 15 to Sept. 19, and in those of New York, Connecticut, Massachusetts and Rhode Island, Sept. 15-Sept. 30.)

Intermediate Zone, Oct. 14-Jan. 1 — California (except San Bernardino, Riverside and Imperial Cos.), Colorado, Connecticut, Idaho, Illinois, Indiana, Kansas, Kentucky, Massachusetts, Missouri, Nebraska, Nevada, New Jersey, New York, Ohio (Pymatuning Reservoir only), Oklahoma, Oregon, Rhode Island, Utah, Washington, West Virginia, Delaware, Pennsylvania, Wyoming.

Southern Zone, Nov. 2-Jan. 20 — Alabama, Arizona, Arkansas, California, (San Bernardino, Riverside and Imperial Cos. only), Florida, Georgia, Louisiana, Maryland, Mississippi, New Mexico, North and South Carolina, Tennessee, Texas and Virginia.

Alaska — Two zones: Sept. 1-Nov. 19 and Sept. 21-Dec. 9.

Puerto Rico — Dec. 15-Feb. 12.

WOODCOCK

Northern New York and Wisconsin — Oct. 1-Oct. 15.

Southern New York (except Long Island), West Virginia and Indiana — Oct. 16-Oct. 30.

Long Island of New York, New Jersey and Rhode Island — Nov. 1-Nov. 15.

Maine, Minnesota, New Hampshire, Ohio and Vermont — Oct. 10-Oct. 24; Massachusetts — Oct. 20-Nov. 3; Arkansas and Oklahoma — Dec. 1-Dec. 15; Louisiana and Mississippi — Dec. 15-Dec. 29; Delaware and Maryland — Nov. 15-Nov. 29.

Michigan (Upper Peninsula) — Oct. 1-Oct. 15; remainder of state — Oct. 15-Oct. 29.

Pennsylvania — Oct. 14-Oct. 28.

Missouri — Nov. 10-Nov. 24.

Virginia — Nov. 20-Dec. 4.

Connecticut — Oct. 26-Nov. 9.

RAIL AND GALLINULE

Sept. 1-Nov. 30, except as follows: Alabama — Nov. 20-Jan. 31; Louisiana — Sept. 15-Dec. 15; Maine and Wisconsin — Sept. 20-Dec. 8; Massachusetts and New York — Oct. 14-Jan. 1; Minnesota — Sept. 16-Nov. 30; Puerto Rico — Dec. 15-Feb. 12; Maryland — Sept. 1-Oct. 31; Mississippi — Oct. 15-Dec. 30.

No open season in California; District of Columbia, Hawaii, Idaho, Iowa, Montana, Nevada, Oregon, Tennessee and Washington.

MOURNING DOVE

Alabama, Georgia, South Carolina — Sept. 16-Oct. 15 and Dec. 25-Jan. 20.

Arizona, Kansas, Kentucky, Missouri — Sept. 1-Oct. 25.

Arkansas and Mississippi — Sept. 16-Sept. 30 and Dec. 10-Jan. 20; California, Colorado,

Nevada, New Mexico and Oklahoma — Sept. 1-Oct. 12; Delaware — Sept. 16-Nov. 9;

Florida (Dade, Monroe and Broward Counties) — Oct. 1-Oct. 31, rest of state, Nov. 20-

Jan. 15; Idaho — Sept. 1-Sept. 15; Illinois — Sept. 1-Sept. 30; Louisiana — Oct. 15-

Oct. 30 and Dec. 10-Jan. 20; Maryland — Sept. 1-Oct. 15; Minnesota, Sept. 16-Sept.

30; North Carolina — Nov. 25-Jan. 20; Oregon — Sept. 1-Sept. 15; Tennessee, Sept.

16-Nov. 11.

Texas in Kinney, Uvalde, Medina, Bexar, Comal, Hays, Travis, Williamson, Bell,

Falls, McLennan, Hill, Navarro, Henderson, Smith, Gregg and Harrison Counties,

and all counties north and west thereof, Sept. 1-Oct. 25; in remainder of state but not

including Cameron, Hidalgo, Starr, Zapata, Webb, Maverick, Dimmit, LaSalle, Jim

Hogg, Brooks, Kenedy, Willacy Counties, Oct. 20-Dec. 14, in these latter counties,

Sept. 15-17-19-21-24 from noon until sunset, and thereafter from Oct. 20-Dec. 9, from

one-half hour before sunrise to sunset.

Virginia — Sept. 16-Oct. 25.

WHITE-WINGED DOVE

Arizona — Sept. 1-Sept. 15.

Texas — in Cameron, Hidalgo, Starr, Zapata, Webb,

Maverick, Dimmit, LaSalle, Jim Hogg's, Brooks, Kenedy,

Willacy Counties — Sept. 15-

17-19-21-24, noon to sunset.

BAND-TAILED PIGEON

Arizona, Colorado, New Mexico, Washington — Sept.

16-Oct. 15; California — Dec. 1-Dec. 30; Oregon —

Sept. 1-Sept. 30.

BAG LIMITS. Ducks — 10 in aggregate of all kinds including not more than 1 wood duck, and in addition 5 singly or in the aggregate mallards, pintails or widgeons. Possession limit 20 in the aggregate of all kinds, but not more than 1 wood duck, and in addition 10 singly or in the aggregate mallards, pintails or widgeons. Geese and brant, 2 but not including blue, snow or white-fronted geese, and in addition (A) 4 singly or in the aggregate of snow and white-fronted geese in the Pacific Coast States or (B) 4 singly or in the aggregate of blue and snow geese elsewhere than Pacific Coast States. Possession limit 4 geese, including brant, but not including blue, snow or white-fronted geese and in addition, not more than 8 singly or in the aggregate blue, snow or white-fronted geese. In Alexander County, Ill., geese may be taken only from one-half hour before sunrise until noon.

Coot and sora, 25, singly or in aggregate, daily and possession. Rail and gallinule 15 in aggregate; 15 possession. Woodcock 4; 8 in possession. Mourning and white-winged doves, 10 in aggregate; possession mourning doves 10, white-winged 10. Band-tailed pigeons 10; possession 10.

American and red-breasted mergansers, 25 singly or in the aggregate.

RESTRICTIONS. Closed season on jacksnipe, Ross's geese and swans; on snow geese in states bordering the Atlantic Coast, in Idaho, and in Beaverhead, Gallatin and Madison Counties, in Montana, on wood duck in Massachusetts and North Dakota. Live decoys, baiting, and use of live-stock as "blinds" prohibited. Migratory waterfowl may be taken with bow and arrow, or with shotgun not larger than 10-gauge, and not capable of holding more than 3 shells. All waterfowl, coot, rails, gallinule, woodcock, mourning and white-winged doves and band-tailed pigeons may be taken from one-half hour before sunrise to sunset. Federal duck stamp required of all waterfowl hunters over 16 years. Migratory birds may be retained for 45 days following close of season in state where killed.

POETRY, ANECDOTES AND PLEASANTRIES

Aunt Susie's Revelation

Aunt Susie, pillar of her rock-ribbed New England church for more than four score years, lay a-dying. A solemn hush pervaded the painfully neat and frugal bedroom, filled now with "brethren" and "sisters" waiting, mournfully yet expectantly, some last pious revelation from those wise old lips.

The "shepherd" leaned gently over the counterpane. "Aunt Susie, Aunt Susie, can you hear me?"

A flicker of recognition—and the good man continued: "Aunt Susie, in this vale of tears you have seen much of sorrow and suffering, and yet you have always walked with patience and joy and strength. Oh tell us, Aunt Susie—tell us the secret of this. What has sustained you?"

The voice of the minister ceased; the "flock" waited breathlessly while Aunt Susie opened her eyes, aglow now with a fierce and holy light.

"Victuals," she sighed—and lay down in Abraham's bosom.

Two-Way Word

"Saippuapuakappias" is a Finnish word meaning "soap maker." Try it from either end.

Rabbit's Foot

A rabbit's foot will bring good luck

So do not be without it,
They say. But there is evidence
That causes me to doubt it.

The average person thinks that
one

Will bring good fortune to
him.

But then the rabbit carried four
And what good did it do him?

Clarence Edwin Flynn

To Make A Man

Enough water to fill a ten gallon
barrel,

Enough fat for seven bars of
soap,

Carbon for nine thousand lead
pencils,

Phosphorus for twenty-two hun-
dred matchheads.

Iron for one medium-sized nail,
Lime enough to whitewash a

chicken coop,
And small quantities of magne-
sium and sulphur.

That's Where It Started

President John Adams in 1776 suggested that the approval of the Declaration of "Independence" ought to be solemnized with pomp and parade, with shows, games, sports, bells, bonfires and illumination."

"In God We Trust" first appeared on a two cent piece issue in 1864.

Smiles in Stone

To epitaph hunters everywhere are presented the following inscriptions (try to find them on your "A" book):

At Bar Harbor, Maine:

*"I reach my arms out fondly
But they clasp the open air;
There is nothing of my darling
But the shoes he used to wear."*

Speaking of soles, this from a New Jersey cemetery:

*"Julia Adams
Died of thin shoes, April 17, 1839."*

And to rhyme, the last word on William Button in Salisbury, England:

*"Oh sun, moon, stars, and ye
celestial poles!
Are graves, then, dwindled into
button holes?"*

But to return—to Cincinnati—this ambiguous comment:

*"Here lies
Who came to this city and died
For the benefit of his health."*

And for our culinary department, we find the following to a celebrated cook, not far from New York City:

"Peace to his H'ashes."

Also this, from, Bethlehem, N. H. (which has its points):

"Meat me in heaven."

But for the epigram of epitaphs we find the following on a grave in Thomaston, Maine:

"My husband—God knows why."

"The Waverley Magazine and Literary Repository," published in 1861, vouches for the authenticity of the following from a Massachusetts cemetery:

*"Sacred to the memory of Miss
Martha Gwynn,*

*Who was so very pure within
She burst the outer shell of sin
And hatched herself a cherubim."*

and

*"Here lies William Smith
And, what is something rarish,
He was born, bred, and
Hanged in this parish."*

Don't Go Near the Water

(The following verses by Walter P. Neff were inspired by paragraph 8, page 93, of The Old Farmer's Almanac for 1943):

All ye who travel down life's way

Give heed to what the sages say:

An honest man who lives aright,
Whose reputation's clean and bright,

Is like a stick without a bend
To mar its straightness end to end.

But place the stick so straight
and true,

Within the water deep and blue,
And, lo, that stick all undeserved
Seems strangely and intensely
curved.

And so take heed, ye mortal
brood

Who journey straight—your rec-
titude

And fair repute may seem to
totter.

If you but enter deep, blue water.

Simple Enough

"Well . . . well . . . my little man," said the condescending uncle to his small nephew who had just returned from his first visit to the big city, "and how did you find the metropolis?"

"No trouble at all," replied the lad, stifling a yawn. "We just walked out of the station and there it was."

By Their Colors

When a man is rebellious, he is red; when afraid, yellow; when "straight," white; when loyal, true blue; when inexperienced, green; and when uninteresting, colorless.

Smartweed and Ticklegrass

Let's not despise just common things,

For here's a truth there is no dodging,

The bird that soars on proudest wings

Comes down to earth for lodging.

Don't hitch your wagon to a star,

Young man, for as a rule,
'Twill prove more practical by far

To hitch it to a mule.

We've noticed this when we have eyed

The doings of humanity,
That what within ourselves is pride

In other folks is vanity.

*Nixon Waterman
from "In Merry Mood"*

For the Psychology Class

Overheard at a Country Fair in the days when horse trading was at its height as an elderly, well dressed gent approached a likely stall.

"How much do you want for the horse?"

"Wall, I dunno, but I figger on getting around a thousand dollars."

"Ahem . . . that's a lot . . . what would you say if you were offered a hundred . . . in cash?"

"I'd take it, mister . . . if you've a mind to offer it."

Whereupon the money changed hands and the new owner moved close to his new charge.

"Say," he asked, "how come you were asking a thousand dollars and then were so willing to accept my offer of only one hundred?"

"Wal . . . mister," was the reply. "I warn't certain but what you was wanting a thousand dollar horse."

Some Bible Statistics

Number of Books	66
Chapters	1189
Verses	31,173
Words	773,692
Letters	3,566,480
Middle and Shortest Chapter	Psalms 117
Shortest Book	111 John
Shortest Verse	John 11:35

An Ancient Prayer

(to be seen on wall of an old inn at Lancashire, England)

Give us O Lord a bit o' sun

A bit o' work and a bit o' fun

Give us all in the struggle and

splutter

Our daily bread and a bit of

butter

Give us our health, our keep to

make

An' a bit to spare for poor folks'

sake

Gives us sense, for we're some of

us duffers

An' a heart to feel for all that

suffers

Give us too a bit o' song

An' a tale, an' a book to help us

along

An' give us our share o' sorrow's

lesson

That we may prove how grief's a

blessing

Give us O Lord a chance to be

Our goodly best, brave, wise and

free

Our goodly best for ourself, and

others

Till all men learn to live as

brothers.

OLD FASHIONED PUZZLES

1. R U A Muster-Day Yankee

1. What was the origin of Muster-Day?
2. During what period were Musters held?
3. What were the age limits for men liable for Muster duty?
4. Who appointed the time for Muster-Day?
5. What men were exempted from the service?
6. When was the Muster annually held?
7. What was the area of the Muster-Field?
8. What did the wandering minstrels sing at the Musters?
9. Who paid for the Muster-Day refreshments?
10. What were the Muster-Day food staples?
11. What were the Muster-Day beverages?
12. How were the casks and jugs kept cool?
13. What caused the abolition of the Muster?
14. And a question which has puzzled many a Yankee patriot for many a year—
"Did the Muster-Day exist primarily for the soldier or for the spectator?"

(Jason Almus Russell in Yankee)

2. Numerical Enigma

Composed of sixteen letters. The 1, 7, 14, 9, is a company. The 3, 12, 8, 11, is a girl's name. The 10, 15, 4, 13 is a number. The 16, 2, 5, 6, is an examination. The whole is good advice from Shakespeare.

3. Word-Synecopations

Take one word from out another, and leave a complete word.

1. Take a staff from a burlesque, and leave to reward. 2. Take to free from a sceptre, and leave a covering. 3. Take to fasten from a sick person, and leave to gasp. 4. Take to fit from a ship of war, and leave fortune.

4. Cross-Word Enigma

My first is in yoke, but not in pair;
My second in atmosphere, not in air;

My third is in drink, but not in sip;

My fourth is in deck, but not in ship;

My fifth is in cut, but not in knife;

My sixth is in woman, but not in wife;

My seventh is in war, but not in strife;

My eighth is in swine, but not in cattle;

My whole is the name of a noted battle.

5. Metagram

I am extensively used by shoe-makers. Beheaded, I become an instructive story; behead again, and I am cultivated. Divide my whole into two equal parts, and each part becomes a reversible word, the first meaning a mineral, the second powerful; read backward, my first is changed into blows, my second into an island in the Mediterranean Sea. Omit my first two and last two letters, and I am a native of an Eastern Desert country. What is my whole?

6. Riddle

I'm part of a flower, a stem, and a leaf.

The gay love me not, for I'm always in grief.

The proud and the lowly alike know me not;

But the lonely and weary are never forgot.

I am not a day, yet I make up the week,

And for me in years, not in vain will you seek.

No musician am I, yet in bells hear me chime;

And will you but hasten, I'm always on time.

7. Mathematical Puzzle

I am a word of seven letters, the sum of which is 752.

My $3 \div my\ 1 = my\ 7 \div 10$.

My $7 \times my\ 4 = 1/10$ of my 3.

My $7 \times (1/10$ of my 1) = my 3.

My $3 \div 5 = my\ 6 \times my\ 5$.

The answers to these puzzles will be found on page 78

WORD CHARADES

1

My first, to shield myself from
my third, wears my second. My
whole is an island of the United
States.

2

My first is made of corn that's
ground;
My second in every house is
found;
My whole just peeps above the
ground,
And wears a little cap that's
round.

3

Of traitors Arnold was the worst,
Yet Englishmen called him my
first.
My second comes to all good men
Who reach their threescore years
and ten.
My whole was by a heathen
horde
Exalted, worshipped, feared,
adored;
But fell to earth, and perished,
prone,
By Hebrew courage overthrown.

4

Ho! fill your glass to comrades
gay,
Let song and laughter burst;
Then fill your glass to those
away,
And fill it to my first.
Go bring a jug of my second up,
Bring flagons of rare old wine,
And fetch the cherished loving-
cup;
We'll drink to mine and thine.
Now, who to mix this draught is
skilled?
We want no bitter bowl
Like that which Dickens said
was filled
With treacle and my whole.

5

My first in radiant robes arrayed,
Or draped in gloom, or drowned
in tears;
My next, as Holy Writ hath said,
Dwells in the sunlight, moon-
light, stars.

My whole a flaunting beauty
bright,

Born for the morning's festal
ray;

Floating in colors, bathed in
light.

Dancing the gayest of the gay.
But when dark hours come steal-
ing on,

My airy graces all are gone;
The frail, brief vision of delight
Shrinks fainting, fainting out of
sight,

Phantom of beauty, quenched in
night.

6

In gorgeous splendor, once upon
a time

My second reigned in Africa's
sunny clime;

A slave provoked his monarch's
royal ire,

And stood before him under sen-
tence dire.

"My first, my last," he stam-
mered, "pity me!"

Must I obey thy horrible decree?
Oh, thou who over millions hast
control—"

One word the magnate uttered,
'twas my whole.

7

My first was a scholarly Scotch-
man of note,

Discourses and essays he learned-
ly wrote,

My second was found in the post,
such a scrawl!

That letter was never opened at
all.

My third's made of flesh and
sinew and bone,

My first, I suppose, had two of
his own;

My whole is a man delightful to
folks

Who enjoy reading jocular jin-
gles and jokes.

8

A wise old proverb advises all
To catch my first if my last
should fall.

A poet, who with genius glowed,
Wrote to my whole a famous
ode.

The answers to these charades will be found on page 78

GESTATION AND REPRODUCTION TABLE

Designation	Proper age for reproduction	Period of the power of reproduction in years	No. of Females for one Male	Period of Gestation and Incubation		
				Shortest period, days	Mean period, days	Longest period, days
Mare.....	4 years	10 to 12		322	347	419
Stallion.....	5 "	12 to 15	20 to 30			
Cow.....	3 "	10 to 14		240	283	321
Bull.....	3 "	8 to 10	30 to 40			
Ewe.....	2 "	6		146	154	161
Ram.....	2 "	7	40 to 50			
Sow.....	1 "	6		109	115	143
Boar.....	1 "	6	6 to 10			
She Goat.....	2 "	6		150	156	163
He Goat.....	2 "	5	20 to 40			
She Ass.....	4 "	10 to 12		365	380	391
He Ass.....	5 "	12 to 15				
She Buffalo....		8		281	308	335
Bitch.....	2 "	8 to 9		55	60	63
Dog.....	2 "	8 to 9				
She Cat.....	1 "	5 to 6		48	50	56
He Cat.....	1 "	9 to 10	5 to 6			
Doe Rabbit....	6 months	5 to 6		20	28	35
Buck Rabbit....	6 "	5 to 6	30			
Cock.....	6 "	5 to 6	12 to 15			
Hen.....		3 to 5		19	21	24
Turkey.....				24	26	30
Duck.....				28	30	32
Goose.....				27	30	33
Pigeon.....				16	18	20
Pea Hen.....				25	28	30
Guinea Hen....				20	23	25
Swan.....				40	42	45
Hen on Duck's Eggs.....				22	30	34

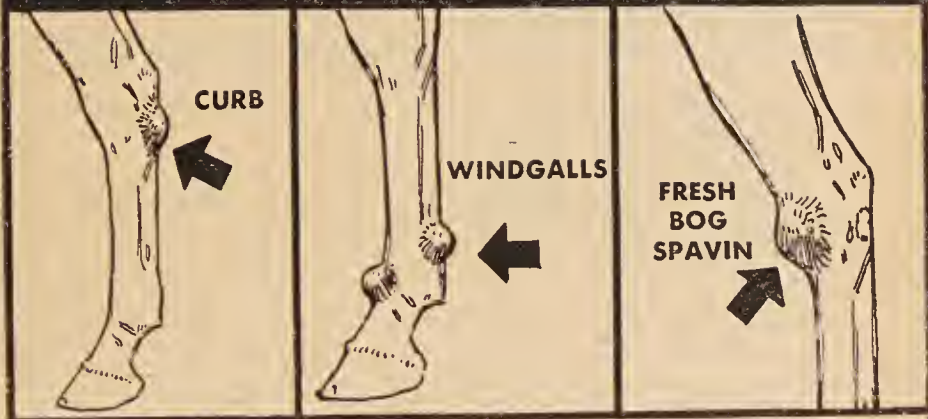
DURATION AND FREQUENCY HEAT SEASON

	<i>In heat for</i>	<i>Reoccurs if not bred</i>
Mares	6 days	3 to 6 weeks
Cows	2-3 days	3 to 4 weeks
Ewes	2-3 days	17-28 days
Sows	2-4 days	21 days
Bitches	5-7 days	3-6 months
Cats	3-15 days	4 months

AGE EXPECTANCY

Indian Ocean Turtle 300 yrs., Saddleback Tortoise 100, elephant, 95, American alligator 75, Goose 44-65, European Eagle-Owl 62, So. American Condor 52, Parrot 50, Golden Eagle 46, Brazilian Boa Constrictor 23, Python 18. Seventeen cats are known to have lived 21 to 31 years. Tommy Bond of Whitewash, Saskatchewan was born in 1904 and died in 1935. Cat expectancy, however, is about 15 years. The oldest living gorilla in captivity in the U. S. — Ngagi at the San Diego Zoo who was 17 in 1943.

Use fast-acting ABSORBINE for—



HOW ABSORBINE WORKS: It speeds the blood flow to the area affected by increasing local circulation. This in turn speeds the removal of waste matter from these areas. Two ounces in a quart of wash tends to prevent stiffening or chilling.

A **STANDBY** for over 50 years, Absorbine is used by many leading veterinarians for lameness, swellings, puffs and bruises. Absorbine speeds the flow of blood to the injury to help carry off the congestion. Usually swellings are relieved in a few hours.

Absorbine will not blister or remove hair. It is not a "cure-all" but a time-proved help in relieving fresh bog spavin, windgall, collar gall and similar congestive troubles. \$2.50 for a **LONG-LASTING BOTTLE** that will prove its value many times! At all druggists.

W. F. Young, Inc., Springfield, Mass.

keep
horse at
work with





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baking that
makes 'em
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*Baked in Famous Down East Kitchens by
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GENUINE NEW ENGLAND

B&M

BRICK-OVEN

BAKED BEANS

18-OZ.
FAMILY
MEAL
SIZE



PRACTICAL METHODS OF FOOD PRESERVATION

By LOUISE PRYOR SKILTON

When the first seed catalogues appear, it is high time to make plans for the food that is to be held in reserve for winter use. Plans for food preservation should parallel plans for planting. What are the foods that will be out of season during the winter in your section of the country? Or hard to obtain? Or expensive? What are the foods you will need to add variety and food value to your meals?

When you have the answer to these questions you still should ask yourself "How much of these foods will I need?" and "Which is the best method of food preservation for me to use?"

Ever since the colonists dried pumpkin and corn, made sauerkraut or salted codfish, homemakers have used the food that was at hand and the methods that were possible with the equipment available.

Present day homemakers have a much wider choice of both foods and methods. But the homemaker must be practical and she is likely to work on the same principle that the colonists did. Being modern, however, she gives particular emphasis to the nutritive value of the foods and how it may be retained during preservation. What are the present day methods of food preservation?

HOME STORAGE of fruits and vegetables is highly desirable for any crops that can be brought to maturity at the proper time for storage. A special planting may be necessary for this purpose. Foods so stored will have higher food value than if processed in any way and the extra labor of processing is not required.

Usually vegetables dry out quickly unless they are stored in a damp place with the temperature as low as possible without freezing but there are certain exceptions: onions and dried beans and peas require cool, dry storage and pumpkins, squashes and sweet potatoes are best when placed in fairly cool and moderately dry storage places.

The well-ventilated, cool, cellar, the specially built-in storage room or the out-door storage pit should all be kept in a clean, sanitary condition. Movable containers are easier to clean than bins. Conditions favorable for the storage of vegetables may also be used for fruits such as apples and pears that mature late in the season. It is well to remember that apples absorb odors from such vegetables as cabbages, turnips or potatoes and should therefore be stored apart from them.

Families living in cities, especially those in apartments, find home storage a problem but it is possible to effect substantial savings by buying in wholesale amounts, if proper storage can be arranged.

The United States Department of Agriculture in answer to many inquiries, says, "It is not possible even in cold storage to hold peaches, tomatoes, peppers, eggplants, and the more common types of watermelons and muskmelons in satisfactorily edible condition for more than about a month." This and other specific directions for Home Storage of Vegetables and Fruits appear in Farmers' Bulletin, No. 1939, issued by the United States Department of Agriculture.

DRYING is one of the oldest methods of food preservation and is done in the simplest way by sun-drying. In clear, dry climates some fruits and vegetables may be dried out-doors or in sunny windows. Drying with controlled heat shortens the time and protects color and flavor.

Only fruits and vegetables that are fresh, ripe, and sound should be used. They should be handled carefully to prevent bruising. Because they will discolor when cut, a sharp knife of stainless steel, glass or plastic should be used. Exposure to the air, even if the work is done with speed, causes changes in color and odor and, to prevent them, special treatment is recommended in Farmers' Bulletin No. 1918, "Drying Foods for Victory Meals," also issued by the United States Department of Agriculture. This bulletin gives plans for building and using different types of driers.

A thermometer is a "must" for this type of food preservation for the correct temperature must be maintained throughout drying. In general this is between 125° and 160° F., although beets should never

be heated over 150°F. Specific directions and temperatures are given in Bulletin No. 1918.

When ready for storage, dried fruits and vegetables should be placed in moisture-proof containers of a size adapted to size of the family.

SALTING AND BRINING as methods of food preservation are not recommended by modern authorities except for the making of sauerkraut or sauerbraten. Other foods require so much soaking to remove the salt that their food values are completely lost.

CANNING, like other methods of food preservation, requires the use of clean, fresh, sound foods. Fruits and vegetables should be graded for size and ripeness, cleaned, and washed thoroughly.

Acid foods, including tomatoes and fruits may be processed in a hot-water bath at boiling temperature, 212°F. Non-acid foods, including the vegetables, must be processed in a pressure canner in order that a temperature of 240° to 250°F. may be obtained.

The homemaker should understand the care and use of her pressure canner as an engineer with his engine. She should follow the directions that came from the manufacturer with the canner and for further information she should secure a leaflet issued by the Bureau of Human Nutrition and Home Economics, Agricultural Research Administration, United States Department of Agriculture, Washington, D. C. "Take Care of Pressure Canners."

Jars and closures for canning must be free from cracks, chips, and dents. If the lightning-type of jar is used the wire clamp may need tightening. If rings of synthetic rubber are used it is safe to boil them in advance as, occasionally, they have been thought to develop an unpleasant flavor in the product. For a dozen rings allow a quart of water and a tablespoon of soda; boil ten minutes.

Jars and caps (not metal closures) should be washed, rinsed and placed in a pan of warm water. This may be heated to boiling just before the jars are filled. Closures with rubber "made on" should be dipped quickly into boiling water just before they are to be used.

Food to be blanched may be placed in a wire basket, colander, or large square of cheesecloth and dipped into boiling water or subjected to steam. This blanching period is timed carefully and the produce is then plunged into cold water to cool. Blanching is done for ease in removing skins as of peaches or tomatoes or to shrink the food before packing as in the case of greens.

Jars should be packed quickly, very quickly. This means that equipment and products should be ready. It also means that not too large an amount should be undertaken at one time. Jars should be packed moderately tight; especially with corn, shell beans and peas a head space should be allowed for expansion. On the other hand, tomatoes should be pressed in the jar so that extra juice overflows and may be saved if the jar is placed in a bowl or suitable container. Greens should be pressed into the jar lightly and cut cross-wise from top to bottom of the jar with a sharp knife. If salt is to be used, it should be added when the jar is about three-quarters filled.

Before closures are adjusted, the tops of jars should be wiped with a clean cloth. For satisfactory results, it is necessary to use exactly the method correct for the type of jar used. For economy's sake, jars in which other food products as coffee, salad dressing or peanut butter have been purchased may be used. A leaflet "Wartime Canning of Fruits and Vegetables" (another publication of the Bureau of Human Nutrition and Home Economics) gives a complete description of the various closures and their uses. It is most useful for the home canner. This bulletin also gives the most recent Canning Tables both for foods processed by water bath and by pressure canners. It is most important to use the correct time—for underprocessing results in spoilage.

When processing is completed, the jars are removed from water bath or canner and the seal completed, if necessary.

Jars should be placed well apart on a folded cloth to cool and they should be protected from drafts. Keep the jars right side up. When

thoroughly cool, remove the screwbauds or caps that have a glass or metal top underneath, if such type closures have been used.

Test for leaks by tipping the jar when it is cold. If the seal has not been completed, and the jar leaks, use the contents at once or heat the contents and process again in another jar. Wipe the jars, label with the name of contents and the date. Store in a dark, cool, dry place. The ideal temperature is between 40° and 50°F. Freezing does not spoil canned foods but may crack the jar with resulting loss. Or if stored in too warm a place, jars of food may spoil. All jars should be examined for bulging rubber rings, gas bubbles or leakage before they are opened; spurting liquid or "off odor" when they are opened. All food that is in any way doubtful should be discarded without hesitation.

FREEZING as a method of food preservation has become justly popular and in time may be used more commonly than canning. At present its use is limited by the amount of equipment available. This method has much in its favor as it retains the natural color, flavor and vitamin value of foods to a greater degree than any other method of preservation. Locker space or individual freezing units are the goal of progressive homemakers of 1945!

Freezing is just the reverse of canning in which heat is used to prevent spoilage. In freezing, the low temperature retards changes in the products but such changes will begin as soon as the food is thawed so it should be used at once. Fruits and vegetables at their prime are frozen rapidly, kept at 0°F. or slightly below. Vegetables that have been preserved by freezing successfully include asparagus, broccoli, brussels sprouts, cabbage, cauliflower, lima beans, soybeans, peas, snap beans, sweet corn, spinach, swiss chard and peppers. Celery, cucumbers, lettuce and whole tomatoes are not yet recommended for this method. Fruits that may be frozen include a great variety of berries, cherries, peaches; grapes are apparently not satisfactory.

When the foods are prepared some are pre-cooked. Sirups and brines, if used, should be cold when added. The product is packed in tin, glass, or moisture, vapor-proof cartons, especially made for the purpose. The food should be divided into the amount that will be needed for a meal or two and packed with the necessary head space for expansion.

The container should be sealed. It is interesting to note that the cellophane containers are sealed by pressing the edges with a hot iron. In this process, the product is labelled with name and date at this point.

Rapid freezing, desirable to produce a high quality of product, depends upon the temperature, the wrappings and the size of the package.

When ready to use, if the food is to be cooked, drop it into a small amount of boiling water while it is still frozen; break apart, gently, with a fork. Bring water to boiling point and complete cooking as quickly as possible. This short cooking period is a most important factor in retaining color, flavor, and high nutritive value of the food.

Frozen fruits are most frequently used uncooked. They are served in the same ways as fresh fruits. Crushed fruits may be defrosted and used on ice creams or in shortcakes.

Anyone anticipating the purchase of a freezing unit when they are available will be interested in "Preparing Home Grown Vegetables and Fruits for Freezing," a timely leaflet prepared by the Bureau of Agricultural and Industrial Chemistry, Agricultural Research Administration, United States Department of Agriculture, Washington, D. C.

Whichever foods the homemaker wishes to preserve and whichever method is best for her, there may be specific problems in her particular community. There are variations due to soil conditions, to humidity, to altitude or other causes. These problems should be referred to the county extension service or to the State Agricultural Experiment Station for answer.

Ask your Senator for copies of the government bulletins mentioned.

VEGETABLE RECIPES

AZTEC BEANS

- | | |
|---------------------------------------|-------------------------|
| 3 cups cooked kidney beans | 1 teaspoon salt |
| 1½ cups canned tomatoes | ¾ teaspoon mustard |
| 1 green pepper, coarsely chopped | ¾ teaspoon curry powder |
| 1 onion, coarsely chopped | 1½ tablespoons molasses |
| 1 cup cooked meat, (optional) chopped | 1½ tablespoons sugar |
| | 4-6 strips bacon |

Mix beans, tomatoes, pepper, onion, meat (if used) in a baking dish and add salt, mustard, curry powder, molasses and sugar. Fry the bacon until almost crisp. Place partially cooked bacon on top of mixture in baking dish. Bake in hot oven, 400°F. for 30 minutes. Serves 4.

A GARDEN OMELET

- | | |
|---|----------------------------|
| 4 egg yolks | 2 tablespoons flour |
| ½ cup milk | 4 egg whites, beaten stiff |
| 1 teaspoon salt | 1 tablespoon fat |
| ¼ teaspoon pepper | 4 strips bacon |
| 2 cups cooked vegetables as corn, peas, chopped carrots and celery. | |

Beat egg yolks until light and add milk, salt and pepper. Add vegetables dusted with flour. Fold in egg whites, beaten stiff. Melt fat in frying pan, turn in omelet mixture, cook slowly on top of stove until it begins to brown underneath. Place in slow oven, 325°F. for 20-25 minutes. Remove to hot platter and serve at once. Garnish with bacon curls. Serves 4.

VEGETABLE CHOWDER

- | | |
|------------------------|---|
| 1 cup carrots, sliced | 1 teaspoon salt |
| ½ cup green peas | ¼ teaspoon pepper |
| ½ cup celery, chopped | 2 tablespoons butter or fortified margarine |
| ½ cup cabbage, chopped | 1 quart milk |
| 1 onion sliced | |
| 1½ cups potato sliced | |

Cook carrots, peas, and celery in small amount of boiling water about 10 minutes. Add cabbage, onion and potato and continue cooking until vegetables are tender. Season with salt and pepper, add butter and milk. Reheat and serve. Serves 6.

JELLIED CIDER SALAD

- | | |
|-----------------------------------|-------------------------|
| 2½ cups cider | 1 cup diced apple |
| 2 tablespoons granulated gelatine | ½ cup chopped celery |
| ¼ teaspoon salt | ½ cup chopped nut meats |
| | 1 cup cress |

Use ½ cup of cider in which to soften gelatine. Heat remainder of cider to the boiling point; add gelatine and stir until dissolved. Add salt. Cool mixture and when it is the consistency of egg white fold in apple, celery, and nuts. Place in individual molds and chill. Serve on nests of cress. Makes 6.

DELMONICO POTATOES

- | | |
|--------------------|--------------------------------|
| 2 cups white sauce | 2½ cups cooked potatoes, diced |
| ½ cup cheese | 8 hard-cooked eggs, sliced |

Prepare white sauce and add cheese. Arrange in a greased baking dish a layer of potatoes, a layer of eggs and cover with cheese sauce. Repeat, having cheese sauce on top. Cook in hot oven, 400°F. until sauce bubbles. Serves 6.

White Sauce

- | | |
|---|-------------------|
| 4 tablespoons butter or fortified margarine | ¼ teaspoon pepper |
| 4 tablespoons flour | 2 cups milk |
| ½ teaspoon salt | |

Melt butter or margarine. Stir in flour, salt and pepper. Add milk gradually. Place over hot water. Cook 15 minutes.

BAKED MINTED CARROTS

- | | |
|----------------------------------|---|
| 2 cups carrots, sliced crosswise | 2 tablespoons butter or fortified margarine |
| ½ teaspoon salt | 1 tablespoon fresh mint, chopped |
| ¼ cup brown sugar | |

Select young carrots, wash, scrape, cut in slices. Place in greased casserole, sprinkle with salt and sugar and dot with butter. Cover and bake in moderate oven, 350°F. about 45 minutes. Uncover, sprinkle with mint and bake about 10 minutes longer. Serves 4.

Year after year housewives find

UNDERWOOD DEVILED HAM

a most versatile and delicious food

Fine Savory Ham, minced to perfection and blended with rare spices to produce the famous flavor found ONLY in Underwood's!



● A Year-round Favorite with all the family

● It's more than the favorite Sandwich Spread of the Nation

● It's a tempting, nutritious food that adds rare flavor and goodness to dozens of dishes

TRY THESE RECIPES!

Sunday Night Salad

- 4 good-sized tomatoes
- 3 pimentos, chopped fine
- $\frac{1}{2}$ cup celery, chopped fine
- 1 head lettuce
- Unsalted mayonnaise
- One can UNDERWOOD Deviled Ham

REMOVE tops of tomatoes and scoop out centers. Place tomato cups on ice, to chill. Blend UNDERWOOD Deviled Ham with mayonnaise. Chop tomato centers and mix with pimentos and celery. Combine UNDERWOOD Deviled Ham and mayonnaise with this mixture. Fill tomato cups heaping full, and serve in nest of lettuce leaves. This quantity will serve four persons.

Stuffed Celery Canape

CLEAN and cut celery stalks into two-inch lengths and stuff with UNDERWOOD Deviled Ham moistened with Roquefort and cream cheese. A little finely chopped green pepper gives an added touch of flavor and attractiveness.

Deviled Ham and Peanut Butter

- 2 parts UNDERWOOD Deviled Ham
- 2 parts peanut butter
- Small strips of bacon
- Toasted crackers

SPREAD mixture on crackers. Place under salamander and bake slowly; garnish with small strips of broiled bacon.

Deviled Ham and Egg

- Hard-boiled eggs, chopped fine
- Mayonnaise to moisten
- UNDERWOOD Deviled Ham

Mix the ham and eggs thoroughly together with the mayonnaise, and spread between thin slices of bread, cut in desired shape.

Deviled Ham Stuffed Peppers

- 4 large green peppers
- 2 cups bread crumbs
- 1 cup tomato sauce or canned tomato
- 1 small onion, chopped fine
- 1 tablespoon melted butter
- $\frac{1}{2}$ teaspoon pepper
- One can UNDERWOOD Deviled Ham

SPLIT peppers in halves, lengthwise, carefully removing membrane and seeds. Parboil five minutes in boiling salted water. Mix UNDERWOOD Deviled Ham, crumbs and seasoning, and fill halves of peppers. Cover tops with fine buttered crumbs, and bake in a hot oven until peppers are tender.

Deviled Ham and Poached Eggs

- Buttered toast, cut in rounds
- UNDERWOOD Deviled Ham
- Poached eggs

SET rounds of toast in oven for five minutes. Then spread with UNDERWOOD Deviled Ham and place a poached egg on each round of toast. Serve immediately.

CAUTION! Be sure you get the ORIGINAL Deviled Ham. Ask for Underwood's *BY NAME* and always look for the famous Red Devil trademark.

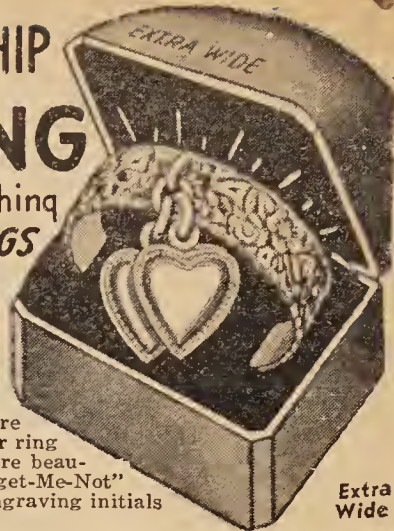
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EACH



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Either the ring or earrings can be worn separately but together they are truly captivating. The precious Sterling Silver ring is extra wide. Both the ring and earrings are beautifully embossed with the very newest "Forget-Me-Not" design with two pendant hearts suitable for engraving initials of loved ones.

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Mail the coupon today. Your package sent immediately and you pay postman only \$1.95 each plus a few cents mailing cost and 20% Federal Tax, on arrival. **SEND NO MONEY** with order. Wear 10 days on money-back guarantee.
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Dept. 40-EP Jefferson, Iowa

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Jefferson, Iowa.

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Dainty,
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This exquisite new and original locket is not only ornamental, but provides a place for two pictures on the inside. The 18-inch chain has a special safety lock fastener. You will be delighted to own and wear this lovely locket.

Each locket has a snaplock.

Opens easily.
2 spaces on the inside for pictures.

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Send the New, 2-Tone Locket. I understand I can return my order within 10 days for any reason and you will refund promptly.

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Just mail the coupon today. Your package will be sent immediately and you pay postman only \$1.95 plus a few cents for mailing cost and 20% Federal tax on arrival. Wear on 10-day money-back guarantee.

EMPIRE DIAMOND CO.
Dept. 101-HV
Jefferson, Iowa

Weight In Lbs.	Local	ZONES							
		1-2 Up to 150 miles	3 150 to 300 miles	4 300 to 600 miles	5 600 to 1,000 miles	6 1,000 to 1,400 miles	7 1,400 to 1,800 miles	8 Over 1,800 miles	
36	\$0.26	\$0.48	\$0.81	\$1.37	\$2.03	\$2.65	\$3.39	\$4.12	
37	.26	.49	.83	1.40	2.08	2.72	3.48	4.23	
38	.27	.50	.85	1.44	2.14	2.79	3.57	4.35	
39	.27	.52	.88	1.47	2.19	2.86	3.67	4.46	
40	.28	.53	.90	1.51	2.25	2.94	3.76	4.57	
41	.28	.54	.92	1.55	2.30	3.01	3.85	4.69	
42	.29	.56	.94	1.59	2.36	3.08	3.94	4.80	
43	.29	.57	.96	1.62	2.41	3.15	4.04	4.91	
44	.30	.58	.98	1.66	2.46	3.22	4.13	5.03	
45	.30	.59	1.00	1.69	2.52	3.30	4.22	5.14	
46	.31	.60	1.02	1.73	2.58	3.37	4.32	5.25	
47	.31	.61	1.04	1.76	2.63	3.44	4.41	5.37	
48	.32	.62	1.06	1.80	2.69	3.51	4.50	5.48	
49	.32	.63	1.08	1.83	2.74	3.58	4.59	5.59	
50	.33	.64	1.10	1.87	2.79	3.66	4.69	5.71	
55	.35	.70	1.21	2.05	3.07	4.02	5.15	6.27	
60	.38	.75	1.31	2.24	3.34	4.38	5.61	6.84	
65	.40	.81	1.41	2.41	3.62	4.74	6.08	7.41	
70	.43	.87	1.51	2.60	3.88	5.10	6.54	7.97	

EXCEPTIONS

(a) In the first or second zone, where the distance by the shortest regular practicable mail route is 300 miles or more, the rate is the same as for the third zone.

(b) On parcels collected on rural routes the postage is 2 cents less per parcel than shown in the foregoing table when for local delivery and 3 cents less per parcel when for other than local delivery.

(c) Parcels weighing less than 10 pounds measuring over 84 inches, but not more than 100 inches in length and girth combined, are subject to a minimum charge equal to that for a 10-pound parcel for the zone to which addressed.

(d) For special rates on catalogs and other similar printed advertising matter, consult postmaster.

Limit of size for parcels is 100 inches in length and girth combined. Limit of weight is 70 pounds in all zones.

Library Books.— Books sent by authorized libraries to readers and when returned by such readers, for delivery within the first three zones or the State in which mailed: 4 cents for the first pound and 1 cent for each additional pound up to and including 47 pounds; 52 cents for 48 pounds and 1 cent for each additional pound up to and including 70 pounds.

SPECIAL HANDLING. (Fourth Class Matter Only.)

Parcels of 4th Class Matter endorsed "Special Handling" will be given the most expeditious treatment practicable (but not Special Delivery) upon payment, in addition to regular postage: Up to 2 lbs. 10c; Over 2 to 10 lbs. 15c; Over 10 lbs. 20c.

SPECIAL DELIVERY FEES

	First Class	Second, Third or Fourth Class
Up to 2 pounds	10c	15c
Over 2 pounds up to 10 pounds	20c	25c
Over 10 pounds	25c	35c

The prepayment of the foregoing fee on second, third, or fourth class mail entitles it to the most expeditious handling and transportation practicable, and also entitles it to special delivery at the office of address.

To Canada: United States Special Delivery Fees are applicable on articles prepaid at the letter rate of postage. Newfoundland and Labrador 20c prepaid in addition to regular postage on letters or articles only prepaid at the letter rate.

Registered Mail — Fees for Indemnity limited to:

\$5	20c	\$300	65c	\$800	\$1.20
50	25c	400	80c	900	1.25
75	35c	500	95c	1,000	1.35
100	40c	600	\$1.05		
200	55c	700	1.15		

Registered mail is subject to surcharges under certain conditions.

Insured Mail (third and fourth classes) Fees for indemnity limited to:

\$5	10c	\$50	30c	\$150	60c
25	20c	100	50c	200	70c

C. O. D. Mail — Unregistered (third and fourth classes) Fees for collections and indemnity limited to:

\$5	24c	\$50	44c	\$150	80c
25	34c	100	64c	200	90c

C. O. D. Mail — Registered (sealed matter of any class bearing first-class postage). Consult postmaster for fees and limits of indemnity.

POSTAL MONEY ORDER

For orders from —		For orders from —	
\$0.01 to \$2.50	10c	\$20.01 to \$40	25c
\$2.51 to \$5	14c	\$40.01 to \$60	30c
\$5.01 to \$10	19c	\$60.01 to \$80	34c
\$10.01 to \$20	22c	\$80.01 to \$100	37c

ARMED FORCES

Three cents an ounce, regular, or six cents, air, to U. S. Postmaster or Fleet Postmaster address. Use V Mail (3c per letter) for speedy transmission to most of the active war fronts.

POSTAL RATES.—FOREIGN

Letters.—For the places in the following list the postal rate is 3 cents each ounce or fraction. For all other foreign destinations, 5 cents first ounce and 3 cents each additional ounce or fraction: Argentina, Bolivia, Brazil, Canada, Chile, Colombia, Costa Rica, Cuba, Dominican Republic, Ecuador, Guatemala, Haiti, Honduras (Republic), Labrador, Mexico, Newfoundland, Nicaragua, Panama, Paraguay, Peru, Salvador, El; Spain and possessions; Uruguay, Venezuela.

Letter Packages.—Articles liable to customs duty may be sent at the letter rate to certain foreign countries. (Inquire at main office or classified stations.) The paper form of customs declaration (Form 2976-A), or an invoice, must be enclosed in each such package and the green label, Form 2976, must be affixed to the outside of the envelope or wrapper. The customs declaration and green label may be obtained free at the post office.

Currency, Jewelry, and other precious articles.—Coins, bank notes, paper money, or any values payable to bearer; platinum, gold, or silver, manufactured or unmanufactured; precious stones, jewelry, or other precious articles are prohibited in the unregistered mails. Money in cash, bank notes, or values payable to the bearer, whether sent in the registered or ordinary mails, are prohibited to certain countries, and in some cases may even be confiscated. Patrons should inquire at the main office or classified stations as to the admissibility of such articles in the letter mails to any particular foreign country.

Post Cards.—Single post cards for places enumerated above 2 cents. Single post cards for all other foreign destinations 3 cents. Maximum size $6 \times 4\frac{1}{4}$ inches, minimum size $4 \times 2\frac{3}{4}$ inches.

Printed Matter.— $1\frac{1}{2}$ cents for each two ounces or fraction. Limit of weight: Inquire at Post Office.

Reduced Postage Rate on Books.—For each pound or fraction—5 cents. Weight limit: 22 pounds, except in case of single volumes addressed to Cuba, El Salvador, Mexico or Panama, where there is no limit of weight. To Peru the weight limit for books is 11 pounds.

This reduced rate is applicable exclusively to books which do not contain publicity or advertising other than that appearing on the covers or fly-leaves, when addressed to the following countries: Argentina, Bolivia, Brazil, Chile, Colombia, Costa Rica, Cuba, Dominican Republic, Ecuador, El Salvador, Guatemala, Haiti, Rep. of Honduras, Mexico, Nicaragua, Panama, Paraguay, Peru, Uruguay and Venezuela.

Samples of merchandise.—For all foreign destinations, $1\frac{1}{2}$ cents each 2 ounces or fraction, with a minimum charge of 3 cents. Limit of weight: 18 ounces.

Commercial papers.—For all foreign destinations, $1\frac{1}{2}$ cents each 2 ounces or fraction, with a minimum charge of 5 cents. Limit of weight 4 lbs., 6 oz.

Eight-ounce Merchandise Packages.—Packages of merchandise weighing 8 ounces or less, for the countries specially named under "Letters" above, 2 cents for each 2 ounces, except that when the contents consist of seeds, scions, plants, cuttings, bulbs, or roots, the rate is $1\frac{1}{2}$ cents for each 2 ounces. (This is not parcel post, must not have customs declarations attached, and must not be sealed except when addressed for delivery in Canada, in which case such packages should be marked "This may be opened for postal inspection if necessary." There is also an exception with respect to sealing in the case of c. o. d. 8-ounce merchandise packages for Mexico, which may be sealed.)

Small Packets.—Three cents for each 2 ounces, with a minimum charge of 15 cents per packet. Limit of weight: 2 pounds 3 ounces. (Inquire at main post office or classified stations for list of countries which accept small packets.) Small packets must bear the green label, Form 2976. They must also be accompanied by the paper form of customs declaration (Form 2976-A), properly completed by the sender and enclosed in the small packet. It is likewise permissible to enclose in small packets an open invoice reduced to its essential terms. Every small packet must be clearly marked on the wrapper by the sender with the words "small packet."

None of the articles mentioned under the heading "Currency, Jewelry, and other precious articles" above, may be forwarded in small packets, even though registered.

Mail service to many foreign countries has been suspended or greatly curtailed, due to war conditions. In view of frequent changes, inquire at post office before mailing articles addressed for delivery abroad.

Maximum dimensions.—For all foreign destinations on all classes of mail noted above (except Post Cards), 36 inches length, breadth and thickness combined, the length being limited to 24 inches. When sent in the form of a roll the length (the maximum of which is 32 inches) plus twice the diameter is limited to 40 inches.

Registration fee.—For all foreign destinations, 15 cents in addition to postage. When a return receipt is requested at the time of mailing there is an additional charge of 5 cents.

Special-delivery (express) service is now in force with the following foreign countries:

Argentina	Dominican Republic	Newfoundland (including Labrador)
Australia	Ecuador	Nyasaland Protectorate
Bahamas	Egypt	Palestine
Brazil	Gibraltar	Panama
British Guiana	Gold Coast Colony	Portugal
British Honduras	Great Britain and Northern Ireland	St. Pierre and Miquelon
(Belize only)		Sweden
Canada	Guatemala	Switzerland
Chile	Ireland	Trans-Jordan
China	Kenya and Uganda	Union of South Africa
Cuba	Mexico	
Cyprus	Morocco (Spanish Zone)	

An article intended for special (express) delivery in any of the countries mentioned above (except Canada, where the United States domestic fees apply) must be prepaid 20 cents, in addition to the regular postage, by United States special-delivery or other stamps, affixed to the cover. There should also be affixed one of the "express" labels (Form 2977) or the cover must be marked boldly in red ink "Express," directly below but never on the stamps. In some countries the service is limited to certain cities, lists of which appear under the country items in Part II of the Official Postal Guide. In Canada and Newfoundland express special-delivery service applies only to letters (or articles prepaid at the letter rate). In the other countries of the above list, the "express" feature is applicable to ordinary and registered Postal Union articles (letters, post cards, commercial papers, printed matter, samples, and small packets), but not to parcel-post packages.

INTERNATIONAL PARCEL POST.

Inquiry should be made of the Requirements and Supply Branch, Bureau of Supplies, Foreign Economic Administration, Washington, 25, D. C. or at the Branch at 61 Broadway, New York, N. Y. or of a Collector of Customs or the Field Offices of the Department of Commerce concerning the kind of license under which the particular article or articles to be sent may be exported.

Many foreign countries have special import license regulations about which information may be obtained at your local post office.

Because of the varying rates and conditions, as well as frequent changes, applicable to foreign countries, it is important that a qualified postal employe handle parcel post transactions. Therefore, parcel post packages for foreign destinations must not be posted in a letter box; such packages should be taken to the main post office or to one of the larger classified stations and handed to a postal clerk.

POSTAL MONEY ORDERS.—INTERNATIONAL.

Limit of a Single Order, \$100.

For Orders from—

\$0.01 to \$10	10 cents
From \$10.01 to \$20	20 cents
Advancing thus to.....From \$90.01 to \$100.....	1 dollar

Air Mail in the Continental United States is 8 cents for each ounce or fraction thereof. This rate is also applicable to Canada.

The rate to Bahamas, Cuba, Dominican Republic, Haiti, Jamaica, British Virgin Islands, Mexico, Puerto Rico, and Virgin Islands of the United States, is 10 cents for each ½ ounce or fraction thereof.

FOREIGN AIR MAIL POSTAGE RATES

<i>Destination</i>	<i>Rate per ½ ounce</i>	<i>Destination</i>	<i>Rate per ½ ounce</i>
Aden	.70	Iraq	.70
Afghanistan	.70	Ireland	.30
*Alaska	.08	Ivory Coast	.50
Algeria	.33	Jamaica	.10
Anglo-Egyptian Sudan	.70	Kenya, Uganda	.80
Angola (P.W.A.)	.60	Leeward Islands:	
Argentina	.40	Anguilla, Antigua, Barbuda,	
Azores	.30	Dominica, Montserrat,	
Bahamas	.10	Nevis, Redonda, St. Kitts	.15
Bahrein Islands	.70	Liberia	.50
Barbados	.25	Libya	.33
Belgian Congo	.60	Madagascar	.30
Bermuda	.10	Madeira	.30
Bolivia	.35	Malta	.70
Brazil	.40	Martinique	.15
British Guiana	.30	Mauritania	.45
British Honduras	.20	Mauritius	.60
British Virgin Islands	.10	Mexico	.10
Cameroons, Br. & Fr.	.60	Morocco	.33
*Canada	.08	Mozambique (P.E.A.)	.60
Canal Zone	.15	Newfoundland	.15
Canary Islands	.40	Nicaragua	.12
Cape Verde Islands	.55	Niger	.45
Ceylon	.70	Nigeria	.50
Chile	.40	Nyasaland	.60
China (Unoccupied)	.70	Palestine	.70
Colombia	.35	Panama	.15
Corsica	.33	Paraguay	.40
Costa Rica	.15	Peru	.30
Cuba	.10	Portugal	.30
Curacao:		Portuguese Guinea	.50
Curacao Island, Aruba, -		Portuguese East Africa	
Bonaire	.25	(See Mozambique)	
Saba, St. Eustatius,		Puerto Rico	.10
St. Martins	.10	Reunion	.30
Cyprus	.70	Rhodesia, No. & So.	.60
Dahomey	.45	Rio de Oro	.40
Dominican Republic	.10	Saudi Arabia	.70
Ecuador	.30	Senegal	.45
Egypt	.70	Sierra Leone	.50
El Salvador	.12	Somaliland, Br., Fr. & It.	.70
Eritrea	.70	Southwest Africa	.60
Ethiopia	.70	Spain (Spanish Offices in	
Falkland Islands	.40	North Africa)	.30
Faroe Islands	.30	Spanish Guinea	.50
French Equatorial Africa	.60	Surinam	.30
French Guiana	.30	Sweden	.30
French Guinea	.50	Syria & Lebanon	.70
French Sudan	.50	Tanganyika	.60
French Togoland	.45	Trans-Jordan	.70
Gambia	.50	Trinidad	.15
Gibraltar	.30	Tunisia	.33
Great Britain	.30	Turkey	.70
Guadeloupe	.15	Union of South Africa	.60
Guatemala	.12	Uruguay	.40
Gold Coast Colony	.50	U. S. S. R.	.70
Haiti	.10	Venezuela	.25
Hawaii	.20	Virgin Islands, U. S.	.10
Honduras, Republic of	.12	Windward Islands:	
Iceland	.30	Grenada, Grenadines,	
India, Br., Fr. & Port.	.70	St. Lucia, St. Vincent	.15
Iran	.70	Yemen	.70
		Zanzibar	.60

* 8 cents per ounce.

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EYE GLASSES BY MAIL**

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as LOW as
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ADVANCE SPECTACLE CO.

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Chicago, Ill.

OLD STAMPS WANTED

I WILL PAY \$100.00 EACH for 1924 1c green Franklin stamps rotary perforated eleven (up to \$1000.00 each if unused). Send six cents today for Large Illustrated Folder showing Amazing prices paid.

Vernon Baker, (OFA-45) Elyria, Ohio

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Thumbs to Nose

. . . and little fingers to ears . . . and you will have no more hiccoughs. Sounds like an old wives' tale? Just try it some time. Remember, however, that you must block up both nose and ears tightly and swallow three times before you let go. They say the Lord looks after drunks and little children. Well, we learned this stunt from a retired barkeep over twenty-five years ago. Said he'd never met a case of hiccoughs this method wouldn't cure. Nor have we—in the twenty-five years since.



Birthplace of Robert B. Thomas, Grafton, Mass. Former residence of Joseph Goodale whose wife was Mr. Thomas' daughter. Now owned by Francis Prescott, classmate of Carroll Swan, the tenth anniversary of whose passing this 1945 OFA commemorates.

THAT MILD WINTER OF 1943-44

In last year's OFA, Mr. Weatherwise committed himself to one of his rare overall definite predictions, saying: the coming winter will be milder than last—and probably milder than most. It seems worth recording here for future generations something of this mild winter—so mild in most places as to remain a counterpart in years to come for the famous cold summer of 1816.

Most likely snow was the beginning indication of things to come for November 22, 23, and 24th. Southwestern New Hampshire and Southern Vermont got thirteen inches—the heaviest fall in the history of Rutland, Vermont. At which time, we are told the rheumatic donkey used by Lt. Col. F. A. Kleuver at a front line air force station just out of weather observing equipment, let out a particularly loud bray detected by some as professional jealousy. Others, sensing the OFA as off on the wrong foot—plenty wrong-gathered round to watch the kill.

By January 6, 1944, however, even the Navy had come aboard with Robert D. Edwards, aerology instructor at Colgate "seeing some unseasonably mild weather between the end of January and the middle of March." Only N. T. Case of Granby, Conn., refused to be railroaded with the rest. He on January 8th saw a "wilder, not a milder winter" ahead.

Well, by January 28th, the returns started coming in. Chicago reported the "warmest January in years." Strawberry plants blossomed, overcoats became unnecessary. 62 in Chicago, 56 in Des Moines, 63 in Minneapolis, 69 in Omaha. The Chicago weather bureau had to reassure folks that "winter would be back." The soothsayers began insisting that all this had come about purely and simply because the Office of Censorship and the Weather Bureau had lifted the weather restrictions somewhat at the beginning of this season and this was just courteous on the weather's part—this mild winter. The venerable New York Times of January 29th, however, was pinching itself too and reassuring us we still couldn't be certain this was to be the winter our grandchildren would be asking us about—woolen under-wearers being rushed to the hospital in January with heat strokes, robins in Central Park, canoeing down the Nose Dive at Mount Mansfield. "The only certainty about the weather in this climate is its uncertainty."

January had averaged three degrees warmer per day.

And who knows . . . perhaps Weatherwise won the war with his mild winter this year for certainly the Russian advances found it of inestimable value. An AP Moscow dispatch of January 17th declared it to be the "mildest season in the memory of many Moscovites who have lived here a long time" . . . "the same conditions all the way to Vladivostok in the Far East." Why on the 17th it was only 5 above in Moscow—practically May conditions.

Then February . . . and March. On February 24, the famous News Front page in Iron Age magazine stated: "With the lower Great Lakes free of ice the 25 ships wintered at Milwaukee are receiving feverish preparations. Navigation is expected to open much earlier than the traditional April 15th." The March issue of Yachting, boat-owners Bible, carried in its Niagara Frontier column: "Up to the time of this writing, the winter in this area has been unusually mild with a noticeable absence of snow."

Even California couldn't make the headlines any more with such a winter and rushed its leading film comedians to the fore with copy about its "4 Day Storm" and "7 Inch Dew" on Washington's Birthday. When "interviewed" Groucho Marx said: "Call me later. I expect my dove back at 5 P. M." Bob Burns commented: "There is no truth to the rumors I had trouble getting home last night. I found my house floating half way down the road to meet me." And continued the AP, cautious Eddie Cantor said: "I own property here. I haven't noticed a thing."

The official Temperature Data on February 29th revealed "Departure from normal since Jan. 1, + 148 degrees" i.e. 148 degrees warmer than usual.

It was to be expected of course that certain Yankee towns in Northern New Hampshire and Maine—like Littleton, for example, and Brunswick, wouldn't experience the mildness the rest of us were enjoying. New England wouldn't be New England if they had. So, it is interesting to note W. I. Lincoln Adams of Littleton reordering for posterity in the letter columns of the New York Herald Tribune: "There are natives here past middle age who say they never saw so much snow nor experienced such cold weather as they have seen this winter."

THE AGRICULTURAL EXPERIMENT STATIONS

These stations might be considered among the most valuable aids to the farmer Uncle Sam provides. Not only are the Directors available for your particular problem—their publications and advice will be found sound and extremely helpful. These stations are under the Office of Experiment Stations, Chief of which is James T. Jardine, assistant chief is R. W. Trullinger, at Washington, D. C.

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 WISCONSIN—*Madison*: E. B. Fred.
 WYOMING—*Laramie*: J. A. Hill.

DOOR STOPS

Doors in modern houses often have automatic gadgets on them to hold them open but old houses look better to use door stops. A lot of old houses are so out of plumb doors won't stay open at all without door stops and in the summer they help to let the breezes sweep clean through and get at that musty, shut-up smell old buildings usually have. Once I found something in a deserted lobsterman's shanty on the Harpswell shore. I brought it home, cleaned and varnished it. It's a hollow half-ball of cast iron with three holes spaced around the edge and a loose ring set in the top. I guess a hundred people tried to think what it might be, after I set it against the front hall door to hold it. Nobody has ever guessed it is the top of an old wooden hitching post, it looks so well.

John Deconen Berry

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DEGREE DAYS

Apparently there have been such things as Degree Days for years and years if we are to believe a source as reliable as the *Heating and Ventilating Magazine* of 148 Lafayette Street, New York City . . . which has been publishing data with regard to same since 1930 and before.

A Degree Day is a mighty useful gadget. It will help you determine the relative strength of each winter as it plods along as well as give you a good measure of how your fuel supply is going to hold out against this doleful September to May period of hibernation. By definition, a Degree Day is the number of degrees that the mean temperature falls below the average of 65. For example, if the mean temperature of yesterday (see your local paper) was 15 degrees Fahr., it was a 50 degree day. We don't know who said it, but somebody did, that the average number of Degree Days in an average winter total of 5934. More on this follows.

In the meanwhile, it is well to remember that your oil consumption (or coal or wood) is not the same in each of the months from September to May. It proceeds rather along the percentages outlined in the following table:

	Milwaukee, Wisc. or Portland, Me.	Davenport, Ia. or New York City	Cairo, Ill. or Richmond, Va.
Sept.	1.7	0.0	0.0
Oct.	6.3	5.2	4.2
Nov.	11.1	11.4	13.0
Dec.	16.5	18.6	20.6
Jan.	18.9	19.6	22.1
Feb.	16.8	18.0	18.8
Mar.	14.4	15.3	14.8
Apr.	9.2	9.0	6.5
May	5.1	2.9	0.0
	100.0	100.0	100.0

Courtesy: Timken Roller Bearing Co.

Thus, if you reside in Portland, Maine—or Milwaukee, Wisconsin—by consulting the foregoing table you will discover that by November 30th you will have—in an average winter—have consumed 1.7 plus 6.3 plus 11.1 or 19.1 per cent of your total fuel consumption for the year. And will need to provide 80.9% for the months to follow.

But how, you may ask, do I know whether or not it is an average winter. Then it is your turn to consult the next table which follows giving you the degree days for Portland, Maine (7218) and Milwaukee, Wisconsin (7245) as well as most other cities in a normal year. If by November 30th, your record of the mean temperatures in your locality reveals you have had more than 19.1% of the year's degree days, then you will know the winter is more severe than usual . . . and you will need an extra supply of fuel. If you have had fewer degree days—you will not need as much fuel as usual, etc.

Place	Degree Days Normal Year	Place	Degree Days Normal Year
Abilene, Texas	2061	Los Angeles, Cal.	1504
Albuquerque, N. Mex.	4298	Louisville, Ky.	4180
Asheville, N. Car.	4232	Memphis, Tenn.	2950
Atlanta, Ga.	2890	Milwaukee, Wis.	7245
Bismarck, N. Dak.	9192	Minneapolis, Minn.	7850
Boston, Mass.	6045	Nantucket, Mass.	5957
Burlington, Vt.	7514	New Orleans, La.	1024
Chattanooga, Tenn.	3118	New York, N. Y.	5347
Cleveland, O.	6155	Omaha, Neb.	6131
Concord, N. H.	7353	Parkersburg, W. Va.	6109
Dayton, O.	5264	Pittsburg, Pa.	5235
Chicago, Ill.	5957	Portland, Me.	7218
Dallas, Texas	2256	Portland, Ore.	4469
Denver, Col.	5874	Providence, R. I.	6015
Dubuque, Ia.	6790	Richmond, Va.	3695
Greenville, S. Car.	3380	St. Louis, Mo.	4585
Harrisburg, Pa.	5375	San Francisco	3264
Hartford, Ct.	6036	Tepeka, Kan.	4969
Indianapolis, Ind.	5298	Trenton, N. J.	4933
Kansas City, Kan.	4956	Washington, D. C.	4626

To judge the Degree Days for your own town, interpolate between the two nearest cities listed above.

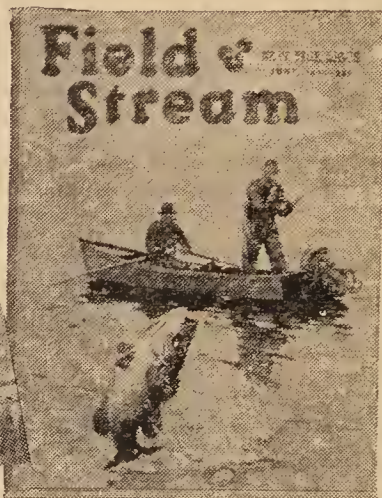
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THE WORLD AT WAR — 1944

Compiled by KATHARINE ELIZABETH CRANE, U. S. Dept. of State

			Bul- garia	Den- mark	Fin- land	France	Ger- many	Hung- ary	Italy	Japan	Poland	Roma- nia	Thai- land	U.S.S.R.
America, United States of	H	U	W			S	W	W	a	W		W	(W)	
Argentina	H	L	S			S	W	W		W		W	W	
Australia	L	U	W		W	S	W	W	(a)	W		W	W	
Belgium	L	U	S	(S)	S	S	W	(S)	(a)	W		(S)		
Bolivia	H	L	U				W	S	(a)	W		S		
Brazil	H	L	U				W	S	(a)	W		S		
Canada	L	U	W		W	S	W	W	(a)	W		W		
Chile	A	H	L	S			W	S	(a)	W		W		
China	L	U	W			S	W	S	(a)	W				
Colombia	H	L	U			S	B	W	(a)	W				
Costa Rica	H	L	U				W	S	(a)	W		W		
Cuba	H	L	U			S	W	W	(a)	W				
Czechoslovakia			(W)		W		W	W	(a)	W		W	(W)	
Dominican Republic	H	L	U			(S)	W	S	(a)	W				
Ecuador	A	H	L			(S)	S	S	(a)	W		S	S	
Egypt	A	H	L	S		(S)	S	S	(a)	W		S	S	
El Salvador	H	L	U			S	W	W	(a)	W				
Ethiopia	L	U					W		(a)	W				S
France								a			S			
French Committee of National Liberation	A	L	U	(W)			W	S	(a)	S		S		
Greece	L	U	W			S	W	S	(a)	W				
Guatemala	H	L	U	W		S	W	W	(a)	W		W		
Haiti	H	L	U			S	W		(a)	W				
Honduras	H	L	U			S	W		(a)	W				
Iceland	A	L	U											
India	L	U	(W)		(W)	(S)	(W)	(W)	(a)	(W)		(W)	(W)	
Iran	L	U	S				W	S	(a)	W		S		
Iraq	L	U				S	W	W	(a)	W				(a)
Italy						a	W	W			(S)			
Liberia	L	U	W				W			W				
Luxembourg	L	U	W			S	W	W	(a)	W		W		
Mexico	H	L	U	S		S	W	S	(a)	W		S	S	
Netherlands	L	U	W	(S)	S	S	W	S	(a)	W		W	S	W
New Zealand	L	U	W		W	S	W	W	(a)	W		W	W	
Nicaragua	H	L	U	W		S	W	W	(a)	W		W	W	
Norway	L	U	W	(S)	S	S	W	W	(S)	S		(S)		
Panama	H	L	U			S	W	W	(a)	W				
Paraguay	A	H	L			S	S	S	(a)	W				
Peru	A	H	L			S	S	S	(a)	W				
Philippines, Commonwealth of the	L	U			S		W	(S)	(S)	W		(S)		(S)
Poland	L	U	S		S	S	W	(S)	(S)	W				(S)
Saudi Arabia	L	U												
Turkey	L	U					S	W						
Union of So. Africa	L	U	W		W	S	W	W	(a)	W		W	W	
Union of Soviet Socialist Republics	L	U		(S)	W	S	W	W	(a)		(S)	W	W	
United Kingdom	L	U	W		W	S	W	W	a	W		W	W	
Uruguay	A	H	L			S	S	S	S	S				
Venezuela	A	H	L			S	S	S	S	S				
Yugoslavia	L	U	(W)		S	S	W	W	(a)	W		S		

A — Governments or authorities associated with the United Nations in the war.

a — In a state of armistice relations.

B — In a "state of belligerency".

H — American republics, signatories of pledges of hemisphere solidarity, mutual aid against aggression, etc.

L — Declared eligible for lend-lease aid; i.e., declared to be a country or entity the defense of which is vital to the defense of the United States.

S — In a state of severed diplomatic relations or a state which has some of the characteristics of severed diplomatic relations.

U — Signatory of or adherent to the Declaration by United Nations.

W — At war, either by formal declaration or *de facto*.

Letters enclosed in parentheses indicate that the situation is open to different interpretations. Bold face indicates developments since this chart was made.

B
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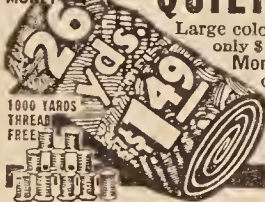
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ARCTIC RESCUE

Nov. 9, 1942 - Apr. 6, 1943

[Briefed from a War Department—A. P. release 5/3/43]

Captain Monteverde was pilot and Lieutenant Spencer co-pilot of a Flying Fortress which was being ferried to Great Britain. It was diverted Nov. 9, 1942, to search for another plane that was reported overdue.

The other plane never was found and while Monteverde's was engaged in the unsuccessful search, it crashed near the West Coast of Greenland.

The plane broke in two, and the radio was wrecked. Sergeant Paul J. Spina was the only one seriously injured.

The crew rigged quarters in the tail of the broken fuselage, but there were only limited rations aboard. High winds and driving snow kept the men inside the crumpled Fortress for ten days. Their situation was made more perilous when a fissure opened in the ice beneath the tail section.

Despite the intense cold, Corporal Loren H. Howarth got the radio repaired, and the stranded men established communication with would-be rescuers, who now included the Army, the Navy and the Coast Guard.

On the fifteenth day Colonel Bernt Balchen, noted flier and Arctic explorer, flew over and dropped supplies. At about the same time Sergeant Tetley and Lieutenant Max H. Demorest, set out with two motor sleds from a small weather station not many miles from the crash. They finally reached the scene on foot, went back for their sleds. Then Lieutenant Demorest disappeared with his sled into a crevasse less than 100 yards from the plane. All rescue attempts failed.

Meanwhile Lieutenant John A. Pritchard, Jr., a Coast Guard flier, landed a Grumman plane near the wreck and succeeded in flying back to the cutter *Northland*, taking with him Sergeant Alexander F. Tuciarone and Staff Sergeant Lloyd Puryear. He returned to the wreck during the attempt to rescue Lieutenant Demorest, but was ordered to take off immediately because fog was closing in. His plane crashed in the take-off, killing all aboard—Pritchard, Howarth and Radioman Benjamin A. Bottoms of the Coast Guard.

The feet of Lieutenant William F. O'Hara in the meanwhile had frozen and were gangrenous, so Captain Monteverde put him on a sled and sent him off—Sergeant Tetley driving the sled and accompanied by Lieutenant Spencer and Private Clarence Wedel.

A mile and a half from the wreck, Private Wedel dropped into a bottomless crevasse and was lost. Four miles farther on, the sled broke down, and the survivors were stranded in two camps. Foul weather and the all but impassable terrain frustrated all attempts to reach them. They were kept alive only by supplies flown in and dropped by the Air Transport Command when the weather permitted.

It was not until February, 1943, Colonel Balchen succeeded in landing a Navy flying boat beside the sled camp and rescuing all the men there, including O'Hara, who lost both feet. Bad weather prevented a return trip by Colonel Balchen until early in April, when he made a second trip, carrying a dog team and several men experienced in Arctic work. These succeeded in bringing Captain Monteverde and the others from the plane to the sled camp and on April 6 Balchen landed his PBV in the snow a third time and flew out with all survivors, including Technical Sergeant Alfred C. Best.



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ACCORDING TO THE ANCIENTS

(*Hesiod — 8th Century, B. C.*)

Each day in the month was to be regarded not only for its weather but for its favor in the eyes of the gods. Here is how these days of any month were regarded.

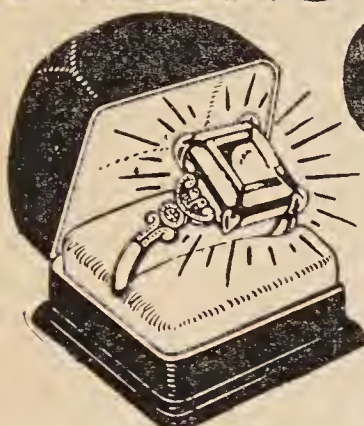
- 1 Holy.
- 2 Luckless.
- 3 Luckless.
- 4 Holy—Build ships—Bring home bride.—Avoid heartfelt troubles.
Fate day.
- 5 Avoid. Unkindly and terrible.
- 6 Changeable.
- 7 Holy.
- 8 } Geld the boar and the bull. Beget or bear. Both these days good
- 9 } for the works of man.
- 10 } Favorable day for a man to be born. Shear Sheep and reap
- 11 } fruits.
- 12 Better still. Geld mules.
- 13 O. K. to set plants but do not sow.
- 14 Holy above all. Favorable for girl to be born. Tame sheep, mules,
and horned oxen—and dogs.
- 15 Brings nothing.
- 16 Fence the sheepeote. Geld kids or sheep—favorable for male to be
born but unfavorable for girl to be born or married. Un-
favorable day for plants.
- 17 Cut your timbers.
- 18 Luckless.
- 19 Improves towards evening.
- 20 A wise man is born on this day.
- 21 Luckless.
- 22 Luckless.
- 23 Luckless.
- 24 Best in morning—less good towards evening. Avoid heartfelt
troubles. Fate day.
- 25 Changeable.
- 26 Changeable.
- 27 Launch ships—Open brine jars—and yoke oxen.
- 28 Luckless.
- 29 Luckless.
- 30 Look over work—Deal out supplies.
- 31 Luckless.

Hesiod also did some dire prophesying on his account—but don't let it get you down.

“For now truly is a race of iron and men never rest from labor and sorrow by day, and from perishing by night . . . and Zeus will destroy this race of mortal men when they come to have gray hair on the temples at their birth. The father will not agree with his children nor guest with host nor comrade with comrade, nor brother be dear to brother as aforetime. Men will dishonour their parents as they grow quickly old . . . and one man will sack another's city. There will be no favour for the man who keeps his oath or for the just or for the good; but rather men will praise the evildoer and his violent dealing. Strength will be right and reverence will cease to be; and the wicked will hurt the worthy man, speaking false words against him, and will swear an oath upon them . . . and bitter sorrows will be left for mortal men and there will be no help against evil.”

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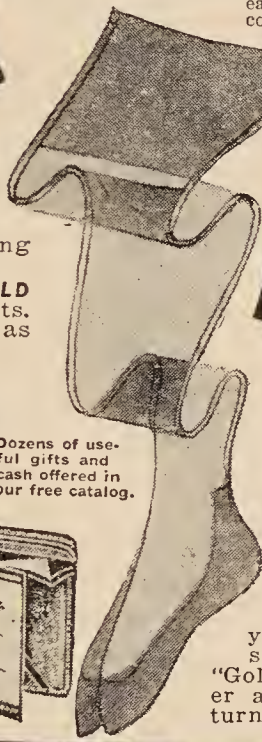
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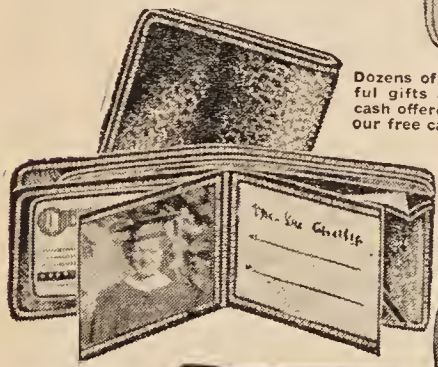
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ANSWERS TO CHARADES ON PAGE 47

1. Manhattan.
2. Mushroom.
3. Image.
4. Brimstone.
5. Morning Glory.
6. Obey.
7. Humorist (Hume O Wrist).
8. Skylark.

ANSWERS TO PUZZLES ON PAGE 46

1. (1) The training days of Colonial times. (2) Approximately 1805-1850. (3) 18-45 years of age. (4) The Colonel of the regiment with the advice of his subalterns. (5) Negroes, Indians, Congressmen, college and academy students, elders, deacons, Quakers, selectmen, millers, physicians. (6) Usually in September. (7) Not less than twenty acres. (8) Ballads such as "Tom Bowling," "Betsy Baker," "On the Road to Boston." (9) The town (which let out the contract to the lowest bidder). (10) Roast, baked, and boiled beef; oysters, wheat and rye bread, cheese; mince and apple pies; sometimes plum, puddings. (11) Blackstrap, flip, toddy, whiskey, elder, West India Rum. (12) By being carefully wrapped around with new-mown hay. (13) Drunkenness, gambling, fighting, profanity, and rowdiness. (14) Probably for the one as much as for the other.

2. "Be just, and fear not."

3. 1. Parody, rod, pay.
2. Trident, rid, tent.
3. Patient, tie, pant.
4. Frigate, rig, fate.

4. Yorktown.

5. Sparable.

6. The letter E.

7. Codicil.

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